European Commission

Draft Assessment Report prepared according to the Commission Regulation (EU) N° 1107/2009

ISOFLUCYPRAM

Volume 3 – B.2 (AS)

Rapporteur Member State : United Kingdom
Co-Rapporteur Member State : France

Version History

When	What
March 2019	Initial DAR

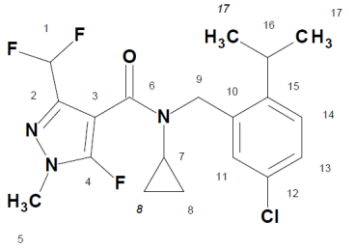
Table of contents

B.2. PHYSICAL AND CHEMICAL PROPERTIES OF THE ACTIVE SUBSTANCE

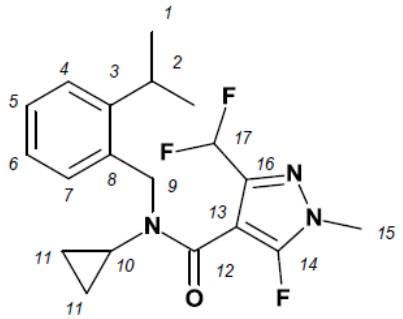
Test or Study Annex Point	Guideline and method	Test material purity and specification	Used methods / Results	Comments (Acceptable / Non acceptable)	GLP	Reference
B.2.1. MELTING POINT AND BOILING POINT						
Melting, freezing or solidification point **B.2.1/01**	Reg (EC) 440/2008 Method A.1 OECD 102	Isoflucypram (pure) Purity: 99.1 % Batch: NLL 8674-39-3	DSC (aluminium crucible with a hole) showed a melting point of 108.8 ºC.	Acceptable	Yes	Krack, M., 2004 Study No.: 20140107.01 M-485886-01-1
Boiling point **B.2.1/02**	Reg (EC) 440/2008 Method A.1 OECD 103	Isoflucypram (pure) Purity: 99.1 % Batch: NLL 8674-39-3	DSC (aluminium crucible with a hole) showed no boiling point up to the start of decomposition at 215 ºC	Acceptable	Yes	Krack, M., 2004 Study No.: 20140107.01 M-485886-01-1
Decomposition / Sublimation temperature **B.2.1/03**	OECD 113	Isoflucypram (pure) Purity: 99.1 % Batch: NLL 8674-39-3	DSC (closed glass crucible) of the test item showed an exothermic effect in the temperature range 215-395 ºC (energy of 1239J/g and 10401 J/g respectively), indicating decomposition.	Acceptable	Yes	Krack, M., 2004 Study No.: 20140107.01 M-485886-01-1
B.2.2. VAPOUR PRESSURE, VOLATILITY						
Vapour pressure **B.2.2/01**	Reg (EC) 440/2008 Method A.4 OECD 104	Isoflucypram (pure) Purity: 99.1 % Batch: NLL 8674-39-3	Vapour pressure balance method used (values determined by extrapolation): 1.2×10^{-7} Pa at 20ºC 2.8×10^{-7} Pa at 25ºC 1.5×10^{-5} Pa at 50ºC	Acceptable Very slightly volatile.	Yes	Dreisch, S., 2014 Study No.: CSL-14-0428.01 M-488244-01-1
	Reg (EC) 440/2008 Method A.4 OECD 104	Metabolite BCS-CY26497 Purity 98.8%	Vapour pressure balance method used (values determined by extrapolation): 2.6×10^{-13} Pa at 20ºC	Acceptable Very slightly volatile	Yes	Dreisch, S., 2015 Study No.: CSL-15-0038.01

Test or Study Annex Point	Guideline and method	Test material purity and specification	Used methods / Results	Comments (Acceptable / Non acceptable)	GLP	Reference
		Batch: SES 12631-19-9	9.4 x 10^{-13} Pa at 25ºC 3.4 x 10^{-10} Pa at 50ºC			M-524541-01-1
Volatility (Henry's Law constant) **B.2.2/02**	Calculation	Isoflucypram (pure) Purity: 99.1 % Batch: NLL 8674-39-3	Henry's law constant (K) at 20ºC in distilled water (pH 5.8) is: 2.7 x 10^{-5} Pa m^3 mol^{-1}	Acceptable	No	Ziemer, F., 2014 Study No.: AF14/022 M-488492-01-1
	Calculation	Metabolite BCS-CY26497 Purity: 98.8% Batch: SES 12631-19-9	Henry's law constants at 20ºC are: 1.4 x 10^{-12} Pa m^3 mol^{-1} at pH 5 1.1 x 10^{-14} Pa m^3 mol^{-1} at pH 7 <7.7 x 10^{-16} Pa m^3 mol^{-1} at pH 9	Acceptable	No	Ziemer, F., 2015 Study No.: AF15/018 M-527835-01-1
B.2.3. APPEARANCE (PHYSICAL STATE, COLOUR)						
Physical state and colour **B.2.3/01**	OCSPP 830.6302 830.6303 830.6304	Isoflucypram (pure) Purity: 99.1 % Batch: NLL 8674-39-3	Physical state: powder Colour: white Odour: odourless	Acceptable Odour is not required but has been reported as it was included in the study report.	Yes	Ziemer, F.; Strunk, B., 2014 Study No.: PA14/031 M-483065-01-1
	OCSPP 830.6302 830.6303 830.6304	Isoflucypram (TGAS) Purity: 98.6 % Batch: PFV171M004	Physical state: powder Colour: light beige Odour: weak, non-characteristic	Acceptable Odour is not required but has been reported as it was included in the study report.	Yes	Ziemer, F.; Strunk, B., 2017 Study No.: PA17/054 M-602694-01-1
B.2.4. SPECTRA (UV/VIS, IR, NMR, MS), MOLAR EXTINCTION AT RELEVANT WAVELENGTHS, OPTICAL PURITY						
Ultraviolet/visible (UV/VIS) **B.2.4/01**	OECD 101 OCSPP 830.7050	Isoflucypram (pure) Purity: 99.1 %	**Solvent** / **Wavelength (nm)** / **Absorbance** / **Molar Extinction Coefficient L mol^{-1} cm^{-1}**	Acceptable No absorbance >290 nm	Yes	Uroic, K; Peiffer, C., 2016 Study No.: 15-600-2727

Test or Study Annex Point	Guideline and method	Test material purity and specification	Used methods / Results				Comments (Acceptable / Non acceptable)	GLP	Reference
		Batch: NLL 8674-39-3	Methanol	201 217	0.93871 0.59694	34779 22116			M-559824-01-1
			Methanol/buffer solution pH2	201 217	1.00310 0.60834	37165 22539			
			Methanol/buffer solution pH10	222	0.57847	21432			
	OECD 101 OCSPP 830.7050	Impurity BCS-CN45153 (pure) Purity 98.3% Batch: NLL 8224-12-1	**Solvent**	**Wavelength (nm)**	**Absorbance**	**Molar Extinction Coefficient L mol^{-1} cm^{-1}**	Acceptable No absorbance >290 nm	Yes	Wagner, S., 2017 Study No.: 15-600-2779 M-610280-01-1
			Methanol	201 211	0.79521 0.77034	20382 19745			
			Methanol/buffer solution pH2	200 212	0.84901 0.78508	21761 20123			
			Methanol/buffer solution pH10	210 219	0.27109 0.61744	6948 15826			
Infrared (IR) **B.2.4/02**	OECD 101 OCSPP 830.7050	Isoflucypram (pure) Purity: 99.1 % Batch: NLL 8674-39-3	**Wavelength**		**Functional Group**		Acceptable	Yes	Uroic, K; Peiffer, C., 2016 Study No.: 15-600-2727 M-559824-01-1
			752/766/1427		R-CH_2				
			798/819/1040/1082		C-Cl				
			832/855/985		Ring				
			894/907/938		CH (out of plane)				
			1027/1112/1147		CH (in plane)				
			1260/1288/1336		C-F				
			1364/1374		R-$CH(CH_3)_2$				
			1541		R-C=O-N-R				
			1583		R-C=N				
			1629		C=C-C=O				
			2867		CH (Ring)				
			2962		R-CH_3				
	OECD 101 OCSPP 830.7050		**Wavelength**		**Functional Group**		Acceptable	Yes	Wagner, S., 2017
			767/1465		R-CH_2				

<table>
<tr><th>Test or Study Annex Point</th><th>Guideline and method</th><th>Test material purity and specification</th><th colspan="8">Used methods / Results</th><th>Comments (Acceptable / Non acceptable)</th><th>GLP</th><th>Reference</th></tr>
<tr><td></td><td></td><td>Impurity BCS-CN45153 (pure)
Purity 98.3%
Batch: NLL 8224-12-1</td><td colspan="8"><table>
<tr><td>801/823/838/1081/1418</td><td>Ring</td></tr>
<tr><td>932/974</td><td>CH (out of plane)</td></tr>
<tr><td>1032/1142</td><td>CH (in plane)</td></tr>
<tr><td>1203/1230/1267</td><td>C-F (aryl)</td></tr>
<tr><td>1299/1338/1351</td><td>C-F (alkyl)</td></tr>
<tr><td>1371</td><td>R-CH(CH$_3$)$_2$</td></tr>
<tr><td>1495/1585</td><td>R-C=N</td></tr>
<tr><td>1539</td><td>R-C=O-N-R</td></tr>
<tr><td>1621</td><td>C=C-C=O</td></tr>
<tr><td>2871</td><td>C-H (Ring)</td></tr>
<tr><td>2969</td><td>R-CH$_3$</td></tr>
</table></td><td></td><td></td><td></td></tr>
<tr><td></td><td>OECD 101
OCSPP 830.7050</td><td>Isoflucypram (pure)
Purity: 99.1 %
Batch: NLL 8674-39-3</td><td colspan="8"><table>
<tr><th>H/C</th><th>δH/ppm</th><th>Mult.</th><th>Rel. no. of H</th><th>δH/ppm</th><th>Mult.</th><th>Rel. no. of C</th></tr>
<tr><td>1</td><td>6.99</td><td>T</td><td>1</td><td>110.5</td><td>S(T)</td><td>1</td></tr>
<tr><td>2</td><td></td><td></td><td></td><td>142.1</td><td>S(D)</td><td>1</td></tr>
<tr><td>3</td><td></td><td></td><td></td><td>98.3</td><td>D br</td><td>1</td></tr>
<tr><td>4</td><td></td><td></td><td></td><td>149.0</td><td>S(D) br</td><td>11</td></tr>
<tr><td>5</td><td>3.80</td><td>S</td><td>3</td><td>35.0</td><td>S</td><td>1</td></tr>
<tr><td>6</td><td></td><td></td><td></td><td>161.8</td><td>S br</td><td>1</td></tr>
<tr><td>7</td><td>2.61</td><td>br</td><td>1</td><td>29.7</td><td>D br</td><td>1</td></tr>
<tr><td>8</td><td>0.58-0.68</td><td>M</td><td>4</td><td>8.8</td><td>T br</td><td>2</td></tr>
<tr><td>9</td><td>4.7</td><td>S</td><td>2</td><td>46.9</td><td>T br</td><td>1</td></tr>
<tr><td>10</td><td></td><td></td><td></td><td>136.2</td><td>S</td><td>1</td></tr>
<tr><td>11</td><td>7.2</td><td>D</td><td>1</td><td>127.9</td><td>D</td><td>1</td></tr>
<tr><td>12</td><td></td><td></td><td></td><td>130.3</td><td>S</td><td>1</td></tr>
<tr><td>13a,b</td><td>7.33</td><td>DD</td><td>1</td><td>127.7</td><td>D</td><td>1</td></tr>
<tr><td>14</td><td>7.38</td><td>D</td><td>1</td><td>127.7</td><td>D</td><td>1</td></tr>
<tr><td>15</td><td></td><td></td><td></td><td>145.9</td><td>S</td><td>1</td></tr>
</table></td><td>The assignments in the results column are based on the following numbering system.
 
These spectra are consistent with the structure of isoflucypram.

Acceptable</td><td>Yes</td><td>Uroic, K; Peiffer, C., 2016
Study No.: 15-600-2727
M-559824-01-1</td></tr>
</table>

Test or Study Annex Point	Guideline and method	Test material purity and specification	Used methods / Results							Comments (Acceptable / Non acceptable)	GLP	Reference
			16	3.13	*br*	1	27.8	D	1			
			17	1.17	D	6	23.5	Q	2			
Nuclear magnetic resonance (NMR) **B.2.4/03**	OECD 101 OCSPP 830.7050	Impurity BCS-CN45153 (pure) Purity 98.3% Batch: NLL 8224-12-1	**H/C**	**δH/ppm**	**Mult.**	**Rel. no. of H**	**δH/ppm**	**Mult.**	**Rel. no. of C**	The assignments in the results column are based on the following numbering system.  These spectra are consistent with the structure of Impurity. Acceptable	Yes	Wagner, S., 2017 Study No.: 15-600-2779 M-610280-01-1
			1	1.18	D	6	23.7	Q	2			
			2	3.15	M *br*	1	28.0	D	1			
			3				146.9	S	1			
			4	7.35	D	1	125.5	D	1			
			5	7.28	M	1	127.9	D	1			
			6	7.17	M	1	125.7	D	1			
			7	7.21	D	1	128.6	D	1			
			8				133.6	S	1			
			9	4.70	S *br*	2	47.1	T *br*	1			
			10	2.55	M *br*	1	29.5	D *br*	1			
			11	0.66-0.58	M	4	8.8	T *br*	2			
			12				161.6	S *br*	1			
			13				98.5	S(D) *br*	1			
			14				149.0	S(D) *br*	1			
			15	3.79	S	3	35.0	Q	1			
			16				142.2	S(T) *br*	1			
			17	6.99	T	1	110.3	D(T)	1			
Mass spectra (MS) **B.2.4/04**	OECD 101 OCSPP 830.7050	Isoflucypram (pure) Purity: 99.1 % Batch: NLL 8674-39-3	m/z $[M+H]^+$ = 400							Mass ion consistent with the molecular mass of isoflucypram (399.84 g mol^{-1}). Acceptable.	Yes	Uroic, K; Peiffer, C., 2016 Study No.: 15-600-2727 M-559824-01-1

Test or Study Annex Point	Guideline and method	Test material purity and specification	Used methods / Results	Comments (Acceptable / Non acceptable)	GLP	Reference
	OECD 101 OCSPP 830.7050	Impurity BCS-CN45153 (pure) Purity 98.3% Batch: NLL 8224-12-1	m/z $[M+H]^+$ = 366	Mass ion consistent with the molecular mass of Isoflucypram (399.84 g mol^{-1}). Acceptable.	Yes	Wagner, S., 2017 Study No.: 15-600-2779 M-610280-01-1
Spectra for impurities **B.2.4/05**				Refer to sections B.2.4/01-04 above		
B.2.5. SOLUBILITY IN WATER						
Solubility in water **B.2.5/01**	Reg (EC) 440/2008 Method A.6 OECD 105 OCSPP 830.7840	Isoflucypram (pure) Purity: 99.1 % Batch: NLL 8674-39-3	1.8 mg/L (pH 5.8, 20ºC, column elution method)	Slightly soluble. Effect of pH not required as no ionisation was detected in the pH rage 1-12 (refer to B.2.8/01). Details of the HPLC method and validation data are reported in Volume 3CA Section B.5.1.2.7 Acceptable	Yes	Ziemer, F., Peschke, C., 2014 Study ID PA14/030 M-488486-01-1
	Reg (EC) 440/2008 Method A.6 OECD 105 OCSPP 830.7840	Metabolite (M12) BCS-CY26497 (BCS-CN88460-carboxylic acid) Batch: SES 12631-19-9 Purity: 98.8%	pH 5: 0.08 g/L pH 7: 10.1 g/L pH 9: >145 g/L (20ºC, flask shake method)	Acceptable Moderately soluble at pH 5. Readily soluble at pH 7 and 9.	Yes	Ziemer, F., Peschke, C., 2015 Study ID: PA14/150 M-522949-01-1
B.2.6. SOLUBILITY IN ORGANIC SOLVENTS						
Solubility in organic solvents **B.2.6/01**	Reg (EC) 440/2008 Method A.6 OECD 105	Isoflucypram (pure) Purity: 99.1 %	**Solvent** / **Solubility at 20ºC (g/L)** Heptane: 1.2 Toluene: >260 Dichloromethane: >260 Methanol: 97	Readily soluble in all organic solvents. The method used is based on EC A6/OECD 105 but Commission Communication 2013/C 95/01 states that method CIPAC MT181 should	Yes	Eyrich, U., Ziemer, F., 2014 Study ID: PA14/060

Test or Study Annex Point	Guideline and method	Test material purity and specification	Used methods / Results		Comments (Acceptable / Non acceptable)	GLP	Reference
	OCSPP 830.7840	Batch: NLL 8674-39-3	Acetone	>260	be used. The RMS considers that the method used is acceptable to determine the solubility in organic solvents and no further data are required. Analytical method used to determine the solubilities in heptane and methanol was the same as that described in the solubility of water determination (with appropriate dilution). Refer to Volume 3CA Section B.5.1.2.7. Acceptable.		M-491820-01-1
			Ethyl acetate	>260			
			dimethylsulfoxide	>260			
B.2.7. PARTITION COEFFICIENT N-OCTANOL/WATER							
Partition coefficient n-octanol/water B.2.7/01	Reg (EC) 440/2008 Method A.8 OECD 117 OCSPP 830.7570	Isoflucypram (pure) Purity: 99.1 % Batch: NLL 8674-39-3	pH4: Log Pow = 4.0 pH7: Log Pow = 4.0 pH9: Log Pow = 4.0 determined by HPLC method at 25ºC		A Log Pow of 4 indicates that Isoflucypram has the potential to bioaccumulate. Acceptable	Yes	Ziemer, F., Peschke, C., 2014 Study ID: PA14/029 M-484656-01-1
	Reg (EC) 440/2008 Method A.8 OECD 107 OCSPP 830.7570	Metabolite BCS-CY26497 Purity: 98.8% Batch: SES 12631-19-9	pH5: Log Pow = 2.1 pH7: Log Pow = 0.22 pH9: Log Pow = -1.1 determined by flask shake method at 23ºC:		The octanol/water partition coefficient of BCS-CY26497 is dependent on pH. The analytical method used to analyse the octanol and water phases was a HPLC method and is described in Volume 3CA Section B.5.1.2.7 Acceptable	Yes	Ziemer, F., Peschke, C., 2015 Study ID PA14/151 M-519996-01-1
B.2.8. DISSOCIATION IN WATER							
Dissociation constant B.2.8/01	OECD 112 OCSPP 830.7370	Isoflucypram (pure) Purity: 99.1 % Batch: NLL 8674-39-3	No dissociation constant (pKa) observed in the range 1<pH<12		The dissociation constant was determined at a concentration of 10.47 mg/L in buffer solution. This concentration was achieved by first dissolving the test material in a small amount of acetonitrile to aid solubility. The concentration tested deviates from the guideline requirements which state that the concentrations of the test substances should not exceed the lesser of 0.01 M (4 g/L) or half the saturation concentration	Yes	Wiche, A., Ziemer, F., 2014 Study ID PA14/048 M-488384-01-1

Test or Study Annex Point	Guideline and method	Test material purity and specification	Used methods / Results	Comments (Acceptable / Non acceptable)	GLP	Reference
				(0.9 mg/L), but this was necessary in order to obtain useful spectra. This is acceptable and the RMS considers that no further data are required.		
B.2.9. FLAMMABILITY AND SHELF-HEATING						
Flammability **B.2.9/01**	UN Test method N1	Isoflucypram (TGAS) Purity: 98.6 % Batch: PFV171M004	Not a readily combustible solid	Acceptable Not classified as flammable.	Yes	Winkler, S., 2017 Project No: PS20170460-2 M-610748-01-1
Self heating **B.2.9/02**	UN Test method N4	Isoflucypram (TGAS) Purity: 98.6 % Batch: PFV171M004	Not a self-heating substance	Acceptable Not classified as self heating substance.	Yes	Winkler, S., 2017 Project No: PS20170460-3 M-610872-01-1
B.2.10. FLASH POINT						
Flash point **B.2.10/01**				Not required since the active substance has a melting point >40ºC.		
B.2.11. EXPLOSIVE PROPERTIES						
Explosive properties **B.2.11/01**	UN RTDG Manual of Tests and Criteria ST/SG/AC.10/11/ Rev 6, Part I (Test Series 1) Section 11 and Part II (Test Series F) Section 26.	Isoflucypram (TGAS) Purity: 98.6 % Batch: PFV171M004	Koenen Test: Negative Time/Pressure Test: Negative BAM Trauzl Test: Negative	Acceptable Not classified as Explosive.	Yes	Dreisch, S., 2018 Study no: CSL-1436.01 M-612015-01-1

Test or Study Annex Point	Guideline and method	Test material purity and specification	Used methods / Results	Comments (Acceptable / Non acceptable)	GLP	Reference
B.2.12. SURFACE TENSION						
Surface tension **B.2.12/01**	Reg (EC) 440/2008 Method A.5 OECD 115	Isoflucypram (pure) Purity: 99.1 % Batch: NLL 8674-39-3	σ = 68.2 mN/m at 20°C (OECD harmonised ring method)	Based on the solubility in water being <1 g/L, a 90% saturated solution was used for the test. The achieved concentration (based on HPLC method as described in PA14/030 and reported in Volume 3CA Section B.5.1.2.7) was 1.5 mg/L (83% of the quoted solubility of water of 1.8 mg/L). Acceptable.	Yes	Eyrich, U., Ziemer, F., 2014 Study ID PA14/059 M-488659-01-1
B.2.13. OXIDISING PROPERTIES						
Oxidizing properties **B.2.13/01**	UN Test method O.3	Isoflucypram (TGAS) Purity: 98.6 % Batch: PFV171M004	No oxidising properties	Not classified as an oxidising solid	Yes	Winkler, S., 2018 Report No: PS20170460-4 M-612014-01-1
B.2.14. OTHER STUDIES						
Relative density	Reg (EC) 440/2008 Method A.3 OECD 109 OCSPP 830.7300	Isoflucypram (pure) Purity: 99.1 % Batch: NLL 8674-39-3	D_4^{20} = 1.22	Acceptable	Yes	Ziemer, F., Strunk, B., 2014 Study ID PA14/035 M-484065-01-1
	Reg (EC) 440/2008 Method A.3 OECD 109 OCSPP 830.7300	Isoflucypram (TGAS) Purity: 98.6 % Batch: PFV171M004	D_4^{20} = 1.31	Acceptable	Yes	Ziemer, F., Strunk, B., 2017 Study ID PA14/051 M-602695-01-1

B.2.15. REFERENCES RELIED

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 2.1 / 01	Krack, M.	2014	BCS-CN88460, pure substance: Melting point, boiling point, thermal stability Siemens AG, Frankfurt am Main, Germany Bayer Report No.: 20140107.01 Edition Number: M-485886-01-1 Date: 2014-05-05 GLP/GEP: Yes, unpublished	No	Yes	New data for a new active substance	Bayer	N/A
KCA 2.2 / 01	Dreisch, S.	2014	BCS-CN88460, pure substance: Vapour pressure Consilab Gesellschaft fuer Anlagensicherheit mbH, Frankfurt am Main, Germany Bayer Report No.: CSL-14-0428.01 Edition Number: M-488244-01-1 Date: 2014-05-28 GLP/GEP: Yes, unpublished	No	Yes	New data for a new active substance	Bayer	N/A
KCA 2.2 / 02	Ziemer, F.	2014	BCS-CN88460: Calculation of the Henry's law constant Bayer Report No.: AF14/022 Edition Number: M-488492-01-1 Date: 2014-06-10 GLP/GEP: No, unpublished	No	No		Bayer	N/A
KCA 2.3 / 01	Ziemer, F.; Strunk, B.	2014	BCS-CN88460, pure substance: Physical characteristics colour, physical state and odour Bayer Report No.: PA14/031 Edition Number: M-483065-01-1 Date: 2014-04-07 GLP/GEP: Yes, unpublished	No	Yes	New data for a new active substance	Bayer	N/A

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 2.3 / 02	Ziemer, F.; Strunk, B.	2017	Isoflucypram (BCS-CN88460), technical substance: Physical characteristics colour, physical state and odour Bayer AG, Crop Science Division, Frankfurt am Main, Germany Bayer Report No.: PA17/054 Edition Number: M-602694-01-1 Date: 2017-10-05 GLP/GEP: Yes, unpublished	No	Yes	New data for a new active substance	Bayer	N/A
KCA 2.4 / 01	Uroic, K.; Peiffer, C.	2016	Spectral data (UV / VIS, IR, 1H-NMR, 13C-NMR, MS) and molar extinction coefficients of BCS-CN88460, pure substance Bayer Report No.: 15-600-2727 Edition Number: M-559824-01-1 Date: 2016-07-21 GLP/GEP: Yes, unpublished	No	Yes	New data for a new active substance	Bayer	N/A
KCA 2.4 / 02	Wagner, S.	2017	Spectral data (UV / VIS, IR, 1H-NMR, 13C-NMR, MS) and molar extinction coefficients of BCS-CN45153 Bayer AG, Crop Science Division, Monheim, Germany Bayer Report No.: M-610280-01-1 Date: 2017-12-07 GLP/GEP: Yes, unpublished	No	Yes	New data for a new active substance	Bayer	N/A
KCA 2.5 / 01	Ziemer, F.; Peschke, C.	2014	BCS-CN88460, pure substance: Solubility in distilled water (column elution method) Bayer Report No.: PA14/030 Edition Number: M-488486-01-1 Date: 2014-06-02 GLP/GEP: Yes, unpublished	No	Yes	New data for a new active substance	Bayer	N/A

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 2.6 / 01	Eyrich, U.; Ziemer, F.	2014	BCS-CN88460, pure substance: Solubility in organic solvents Bayer Report No.: PA14/060 Edition Number: M-491820-01-1 Date: 2014-07-17 GLP/GEP: Yes, unpublished	No	Yes	New data for a new active substance	Bayer	N/A
KCA 2.7 / 01	Ziemer, F.; Peschke, C.	2014	BCS-CN88460, pure substance: Partition coefficients 1-octanol / water at pH 4, pH 7 and pH 9 (HPLC method) Bayer Report No.: PA14/029 Edition Number: M-484656-01-1 Date: 2014-04-22 GLP/GEP: Yes, unpublished	No	Yes	New data for a new active substance	Bayer	N/A
KCA 2.7 / 02	Ziemer, F.; Peschke, C.	2015	BCS-CY26497 (BCS-CN88460-carboxylic acid): Partition coefficients 1-octanol / water at pH 5, pH 7 and pH 9 (shake flask method) Bayer Report No.: PA14/151 Edition Number: M-519996-01-1 Date: 2015-05-06 GLP/GEP: Yes, unpublished	No	Yes	New data for a new active substance	Bayer	N/A
KCA 2.8 / 01	Wiche, A.; Ziemer, F.	2014	BCS-CN88460, pure substance: Dissociation constant in water Bayer Report No.: PA14/048 Edition Number: M-488384-01-1 Date: 2014-06-02 GLP/GEP: Yes, unpublished	No	Yes	New data for a new active substance	Bayer	N/A
KCA 2.9 / 01	Winkler, S.	2017	Isoflucypram (BCS-CN88460), technical substance: Flammability (solids) Siemens AG, Frankfurt am Main, Germany Bayer	No	Yes	New data for a new active substance	Bayer	N/A

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			Report No.: PS20170460-2 Edition Number: M-610748-01-1 Date: 2017-12-13 GLP/GEP: Yes, unpublished					
KCA 2.9 / 02	Winkler, S.	2017	Isoflucypram (BCS-CN88460), technical substance: Test for self-heating substances Siemens AG, Frankfurt am Main, Germany Bayer Report No.: PS20170460-3 Edition Number: M-610872-01-1 Date: 2017-12-13 GLP/GEP: Yes, unpublished	No	Yes	New data for a new active substance	Bayer	N/A
KCA 2.11 / 01	Dreisch, S.	2018	Isoflucypram (BCS-CN88460), technical substance: Explosive properties consilab Gesellschaft für Anlagensicherheit mbH, Frankfurt am Main, Germany Bayer Report No.: CSL-17-1436.01 Edition Number: M-612015-01-1 Date: 2018-01-15 GLP/GEP: Yes, unpublished	No	Yes	New data for a new active substance	Bayer	N/A
KCA 2.12 / 01	Eyrich, U.; Ziemer, F.	2014	BCS-CN88460, pure substance: Determination of the surface tension Bayer Report No.: PA14/059 Edition Number: M-488659-01-1 Date: 2014-06-11 GLP/GEP: Yes, unpublished	No	Yes	New data for a new active substance	Bayer	N/A
KCA 2.13 / 01	Winkler, S.	2018	Isoflucypram (BCS-CN88460), technical substance: Oxidising properties of solids Siemens AG, Frankfurt am Main, Germany Bayer Report No.: M-612014-01-1 Date: 2018-01-05	No	Yes	New data for a new active substance	Bayer	N/A

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			GLP/GEP: Yes, unpublished					
KCA 2.14 / 01	Ziemer, F.; Strunk, B.	2014	BCS-CN88460, pure substance: Relative density Bayer Report No.: PA14/035 Edition Number: M-484065-01-1 Date: 2014-04-15 GLP/GEP: Yes, unpublished	No	Yes	New data for a new active substance	Bayer	N/A
KCA 2.14 / 02	Ziemer, F.; Strunk, B.	2017	Isoflucypram (BCS-CN88460), technical substance: Relative density Bayer AG, Crop Science Division, Frankfurt am Main, Germany Bayer Report No.: PA17/051 Edition Number: M-602695-01-1 Date: 2017-10-05 GLP/GEP: Yes, unpublished	No	Yes	New data for a new active substance	Bayer	N/A
KCA 2.14 / 03	Ziemer, F.; Peschke, C.	2015	BCS-CY26497 (BCS-CN88460-carboxylic acid): Water solubility at pH 5, pH 7 and pH 9 (flask method) Bayer Report No.: PA14/150 Edition Number: M-522949-01-1 Date: 2015-05-19 GLP/GEP: Yes, unpublished	No	Yes	New data for a new active substance	Bayer	N/A
KCA 2.14 / 04	Wiche, A.; Ziemer, F.	2015	BCS-CY26497 (BCS-CN88460-carboxylic acid): Dissociation constant in water Bayer Report No.: PA15/007 Edition Number: M-521954-01-1 Date: 2015-05-19 GLP/GEP: Yes, unpublished	No	Yes	New data for a new active substance	Bayer	N/A
KCA 2.14 / 05	Dreisch, S.	2015	BCS-CY26497 (BCS-CN88460-carboxylic acid): Vapour pressure	No	Yes	New data for a new active substance	Bayer	N/A

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
			Consilab Gesellschaft fuer Anlagensicherheit mbH, Frankfurt am Main, Germany Bayer Report No.: CSL-15-0038.01 Edition Number: M-524541-01-1 Date: 2015-06-03 GLP/GEP: Yes, unpublished					
KCA 2.14 / 06	Ziemer, F.	2015	BCS-CY26497 (BCS-CN88460-carboxylic acid): Calculation of the Henry's law constants Bayer Report No.: AF15/018 Edition Number: M-527835-01-1 Date: 2015-06-29 GLP/GEP: No, unpublished	No	No		Bayer	N/A