

CYFLUTHRIN

Other names:	BAY-FCR 1272
	BAY-VI 1704
	Baythroid
	Baythroid H
	Beta-cyfluthrin
	Bulldock
	Cyano(4-fluoro-3-phenoxyphenyl)methyl
	3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate
	Cyclopropanecarboxylic acid, 2-(2,2-dichlorovinyl)-3,3-dimethyl-, ester with
	(4-fluoro-3-phenoxyphenyl)hydroxyacetonitrile
	Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-,
	cyano(4-fluoro-3-phenoxyphenyl)methyl ester
	Cyfluthin
	Cyfluthine
	Cyfoxylate
	Eulan SP
	FCR 1272
	FCR 4545
	Responsar
	Sofac
	Solfac
	Syfrutrin
	Tempo 2
	[cyano-[4-fluoro-3-(phenoxy)phenyl]methyl]
	3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropane-1-carboxylate
	«alpha»-cyano-4-fluoro-3-phenoxybenzyl
	3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate
	«beta»-Cyfluthrin
Inchi:	InChI=1S/C22H18Cl2FNO3/c1-22(2)15(11-19(23)24)20(22)21(27)29-18(12-26)13-8-9-16
InchiKey:	QQODLKZGRKWIFG-UHFFFAOYSA-N
Formula:	C22H18Cl2FNO3
SMILES:	CC1(C)C(C=C(Cl)Cl)C1C(=O)OC(C#N)c1ccc(F)c(Oc2ccccc2)c1
Mol. weight [g/mol]:	434.29

Physical Properties

Property code	Value	Unit	Source
hfus	46.34	kJ/mol	Joback Method
log10ws	-7.34		Aqueous Solubility Prediction Method
log10ws	-7.34		Estimated Solubility Method
logp	6.317		Crippen Method

mcvol	299.100	ml/mol	McGowan Method
tf	384.92	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	925.27	J/mol×K	1042.24	Joback Method
cpg	943.33	J/mol×K	1084.31	Joback Method
cpg	961.89	J/mol×K	1126.39	Joback Method
cpg	981.18	J/mol×K	1168.46	Joback Method
cpg	1001.44	J/mol×K	1210.54	Joback Method
cpg	1022.92	J/mol×K	1252.61	Joback Method
cpg	1045.85	J/mol×K	1294.69	Joback Method

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C68359375&Units=SI>

Joback Method: https://en.wikipedia.org/wiki/Joback_method

McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

Aqueous Solubility Prediction Method: <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDataset002.xlsx>

Estimated Solubility Method: http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tf:	Normal melting (fusion) point

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