

Fenpropathrin

Other names:	(. +/-)-Fenpropathrin 2,2,3,3-Tetramethylcyclopropanecarboxylic acid, cyano(3-phenoxyphenyl)methyl ester (fenpropathrin) Cyano(3-phenoxyphenyl)methyl 2,2,3,3-tetramethylcyclopropanecarboxylate Cyclopropanecarboxylic acid, 2,2,3,3-tetramethyl-, cyano(3-phenoxyphenyl)methyl ester Danimen Danitol Danitol Fiori Danitrol Fenpropanate Fenpropathrine Herald Kilumal Meiothrin Meothrin Miothrin Ortho danitol Rody S 3206 SD 41706 Smash Tame WL 41706 XE-938 «alpha»-Cyano-3-phenoxybenzyl 2,2,3,3-tetramethyl-1-cyclopropanecarboxylate «alpha»-Cyano-3-phenoxybenzyl 2,2,3,3-tetramethylcyclopropanecarboxylate Â«alphaÂ»-Cyano-3-phenoxybenzyl 2,2,3,3-tetramethyl-1-cyclopropanecarboxylate A«alphaA»-Cyano-3-phenoxybenzyl 2,2,3,3-tetramethylcyclopropanecarboxylate
Inchi:	InChI=1S/C22H23NO3/c1-21(2)19(22(21,3)4)20(24)26-18(14-23)15-9-8-12-17(13-15)25-
InchiKey:	XQUXKZZNEFRCAW-UHFFFAOYSA-N
Formula:	C22H23NO3
SMILES:	CC1(C)C(C(=O)OC(C#N)c2cccc(Oc3ccccc3)c2)C1(C)C
Mol. weight [g/mol]:	349.42
CAS:	39515-41-8

Physical Properties

Property code	Value	Unit	Source
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gf	175.72		kJ/mol	Joback Method
hf	-190.64		kJ/mol	Joback Method
hfus	30.07		kJ/mol	Joback Method
hvap	88.43		kJ/mol	Joback Method
log10ws	-6.03			Estimated Solubility Method
log10ws	-6.03			Aqueous Solubility Prediction Method
logp	5.269			Crippen Method
mcvol	277.150		ml/mol	McGowan Method
pc	1578.46		kPa	Joback Method
rinpol	2498.00			NIST Webbook
rinpol	2498.00			NIST Webbook
rinpol	2514.00			NIST Webbook
rinpol	2495.00			NIST Webbook
tb	959.33		K	Joback Method
tc	1208.31		K	Joback Method
tf	604.70		K	Joback Method
vc	1.065		m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1031.33	J/molxK	1166.81	Joback Method
cpg	902.40	J/molxK	959.33	Joback Method
cpg	925.46	J/molxK	1000.83	Joback Method
cpg	949.54	J/molxK	1042.32	Joback Method
cpg	974.99	J/molxK	1083.82	Joback Method
cpg	1002.14	J/molxK	1125.32	Joback Method
cpg	1062.91	J/molxK	1208.31	Joback Method
hfust	18.57	kJ/mol	322.50	NIST Webbook

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C39515418&Units=SI>

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

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

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
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hfust:	Enthalpy of fusion at a given temperature
hvac:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rlnol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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