

Fluvalinate

Other names:

Apistan
DL-Valine, N-[2-chloro-4-(trifluoromethyl)phenyl]-, cyano(3-phenoxyphenyl)methyl ester
Fluvalinate, isomer 1
Fluvalinate, isomer 2
Kartan
Mavrik
Mavrik aquaflo
Minadox
Valine, N-[2-chloro-4-(trifluoromethyl)phenyl]-, cyano(3-phenoxyphenyl)methyl ester
ZR 3210

Inchi: [cyano-[3-(phenoxy)phenyl]methyl]2-[[2-chloro-4-(trifluoromethyl)phenyl]amino]-3-methylbutanoate
InChI=1S/C26H22ClF3N2O3/c1-16(2)24(32-22-12-11-18(14-21(22)27)26(28,29)30)25(33)**InchiKey:** INISTDXBRIBGOC-UHFFFAOYSA-N**Formula:** C₂₆H₂₂ClF₃N₂O₃**SMILES:** CC(C)C(Nc1ccc(C(F)(F)F)cc1Cl)C(=O)OC(C#N)c1cccc(Oc2ccccc2)c1**Mol. weight [g/mol]:** 502.91**CAS:** 69409-94-5

Physical Properties

Property code	Value	Unit	Source
gf	-240.81	kJ/mol	Joback Method
hf	-692.12	kJ/mol	Joback Method
hfus	50.09	kJ/mol	Joback Method
hvap	110.24	kJ/mol	Joback Method
log10ws	-8.00		Aqueous Solubility Prediction Method
log10ws	-8.00		Estimated Solubility Method
logp	7.396		Crippen Method
mvol	348.140	ml/mol	McGowan Method
pc	1207.31	kPa	Joback Method
rinpol	2973.00		NIST Webbook
rinpol	2966.00		NIST Webbook
rinpol	2964.00		NIST Webbook
rinpol	2976.00		NIST Webbook
tb	1170.91	K	Joback Method
tc	1434.20	K	Joback Method

tf	700.75	K	Joback Method
vc	1.345	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1111.17	J/mol×K	1170.91	Joback Method
cpg	1118.91	J/mol×K	1214.79	Joback Method
cpg	1125.54	J/mol×K	1258.67	Joback Method
cpg	1131.23	J/mol×K	1302.56	Joback Method
cpg	1136.11	J/mol×K	1346.44	Joback Method
cpg	1140.32	J/mol×K	1390.32	Joback Method
cpg	1144.01	J/mol×K	1434.20	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
Aqueous Solubility Prediction Method:	http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa
Estimated Solubility Method:	http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C69409945&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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
hvap:	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
rinpol:	Non-polar retention indices

tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

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