

Flurbiprofen methyl ester

Other names:	Flurbiprofen, methyl deriv.
Inchi:	InChI=1S/C16H15FO2/c1-11(16(18)19-2)13-8-9-14(15(17)10-13)12-6-4-3-5-7-12/h3-11H
InchiKey:	CPJBKHZROFMSQM-UHFFFAOYSA-N
Formula:	C16H15FO2
SMILES:	<chem>COC(=O)C(C)c1ccc(-c2ccccc2)c(F)c1</chem>
Mol. weight [g/mol]:	258.29

Physical Properties

Property code	Value	Unit	Source
gf	-141.77	kJ/mol	Joback Method
hf	-369.64	kJ/mol	Joback Method
hfus	26.84	kJ/mol	Joback Method
hvap	65.04	kJ/mol	Joback Method
log10ws	-4.87		Crippen Method
logp	3.769		Crippen Method
mcvol	197.990	ml/mol	McGowan Method
pc	2239.76	kPa	Joback Method
rinpol	1880.00		NIST Webbook
tb	703.92	K	Joback Method
tc	932.71	K	Joback Method
tf	405.71	K	Joback Method
vc	0.751	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	525.49	J/molxK	703.92	Joback Method
cpg	540.86	J/molxK	742.05	Joback Method
cpg	555.08	J/molxK	780.18	Joback Method
cpg	568.20	J/molxK	818.31	Joback Method
cpg	580.26	J/molxK	856.45	Joback Method
cpg	591.28	J/molxK	894.58	Joback Method
cpg	601.33	J/molxK	932.71	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U120385&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws

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
rinpolar:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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