

Benzamide, 3-trifluoromethyl-2-fluoro-N-(2-ethylhexyl)-

Inchi:	InChI=1S/C16H21F4NO/c1-3-5-7-11(4-2)10-21-15(22)12-8-6-9-13(14(12)17)16(18,19)20
InchiKey:	XOMAGQBKGAKRAF-UHFFFAOYSA-N
Formula:	C16H21F4NO
SMILES:	CCCCC(CC)CNC(=O)c1cccc(C(F)(F)F)c1F
Mol. weight [g/mol]:	319.34

Physical Properties

Property code	Value	Unit	Source
gf	-641.38	kJ/mol	Joback Method
hf	-1017.56	kJ/mol	Joback Method
hfus	38.54	kJ/mol	Joback Method
hvap	63.04	kJ/mol	Joback Method
log10ws	-5.94		Crippen Method
logp	4.791		Crippen Method
mcvol	231.170	ml/mol	McGowan Method
pc	1562.28	kPa	Joback Method
rinpola	1830.00		NIST Webbook
rinpola	1830.00		NIST Webbook
tb	699.57	K	Joback Method
tc	883.23	K	Joback Method
tf	413.91	K	Joback Method
vc	0.919	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	663.14	J/molxK	699.57	Joback Method
cpg	678.04	J/molxK	730.18	Joback Method
cpg	692.06	J/molxK	760.79	Joback Method
cpg	705.25	J/molxK	791.40	Joback Method
cpg	717.65	J/molxK	822.01	Joback Method
cpg	729.30	J/molxK	852.62	Joback Method
cpg	740.26	J/molxK	883.23	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U407706&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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

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