

Benzamide, 2,5-di(trifluoromethyl)-N-hept-2-yl-

Inchi:	InChI=1S/C16H19F6NO/c1-3-4-5-6-10(2)23-14(24)12-9-11(15(17,18)19)7-8-13(12)16(20)
InchiKey:	RUBWLEAJYADTRH-UHFFFAOYSA-N
Formula:	C16H19F6NO
SMILES:	CCCCC(C)NC(=O)c1cc(C(F)(F)F)ccc1C(F)(F)F
Mol. weight [g/mol]:	355.32

Physical Properties

Property code	Value	Unit	Source
gf	-1028.16	kJ/mol	Joback Method
hf	-1418.53	kJ/mol	Joback Method
hfus	37.29	kJ/mol	Joback Method
hvap	60.11	kJ/mol	Joback Method
log10ws	-6.65		Crippen Method
logp	5.423		Crippen Method
mcvol	234.710	ml/mol	McGowan Method
pc	1478.15	kPa	Joback Method
rinpol	1652.00		NIST Webbook
rinpol	1652.00		NIST Webbook
tb	694.88	K	Joback Method
tc	873.94	K	Joback Method
tf	417.51	K	Joback Method
vc	0.945	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	681.40	J/mol×K	694.88	Joback Method
cpg	695.60	J/mol×K	724.72	Joback Method
cpg	708.93	J/mol×K	754.57	Joback Method
cpg	721.42	J/mol×K	784.41	Joback Method
cpg	733.15	J/mol×K	814.26	Joback Method
cpg	744.15	J/mol×K	844.10	Joback Method
cpg	754.48	J/mol×K	873.94	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U407921&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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