

Heptafluorobutanamide, N,N-dihexyl-

Inchi:	InChI=1S/C16H26F7NO/c1-3-5-7-9-11-24(12-10-8-6-4-2)13(25)14(17,18)15(19,20)16(21)
InchiKey:	LRDBYJRSHOQVJO-UHFFFAOYSA-N
Formula:	C16H26F7NO
SMILES:	CCCCCN(CCCCCC)C(=O)C(F)(F)C(F)(F)C(F)(F)F
Mol. weight [g/mol]:	381.37

Physical Properties

Property code	Value	Unit	Source
gf	-1289.45	kJ/mol	Joback Method
hf	-1817.64	kJ/mol	Joback Method
hfus	41.13	kJ/mol	Joback Method
hvap	50.39	kJ/mol	Joback Method
log10ws	-6.16		Crippen Method
logp	5.809		Crippen Method
mcvol	260.240	ml/mol	McGowan Method
pc	1148.32	kPa	Joback Method
rinpol	1556.00		NIST Webbook
rinpol	1556.00		NIST Webbook
tb	616.99	K	Joback Method
tc	767.28	K	Joback Method
tf	363.87	K	Joback Method
vc	1.048	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	748.10	J/molxK	616.99	Joback Method
cpg	764.43	J/molxK	642.04	Joback Method
cpg	779.91	J/molxK	667.09	Joback Method
cpg	794.58	J/molxK	692.13	Joback Method
cpg	808.49	J/molxK	717.18	Joback Method
cpg	821.67	J/molxK	742.23	Joback Method
cpg	834.17	J/molxK	767.28	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U308271&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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