

Hexane, 1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-

Other names:	1H-Perfluorohexane trideca-1,1,1,2,2,3,3,4,4,5,5,6,6-fluorohexane
Inchi:	InChI=1S/C6HF13/c7-1(8)2(9,10)3(11,12)4(13,14)5(15,16)6(17,18)19/h1H
InchiKey:	XJSRKJAHJGCPGC-UHFFFAOYSA-N
Formula:	C6HF13
SMILES:	FC(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)F
Mol. weight [g/mol]:	320.05
CAS:	355-37-3

Physical Properties

Property code	Value	Unit	Source
gf	-2521.13	kJ/mol	Joback Method
hf	-2765.63	kJ/mol	Joback Method
hfus	10.74	kJ/mol	Joback Method
hvap	11.46	kJ/mol	Joback Method
log10ws	-4.57		Crippen Method
logp	4.355		Crippen Method
mcvol	118.410	ml/mol	McGowan Method
pc	1930.44	kPa	Joback Method
rinpol	300.00		NIST Webbook
tb	310.60	K	Joback Method
tc	423.34	K	Joback Method
tf	162.15	K	Joback Method
vc	0.544	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	257.44	J/mol×K	310.60	Joback Method
cpg	269.31	J/mol×K	329.39	Joback Method
cpg	280.54	J/mol×K	348.18	Joback Method
cpg	291.16	J/mol×K	366.97	Joback Method
cpg	301.20	J/mol×K	385.76	Joback Method
cpg	310.66	J/mol×K	404.55	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C355373&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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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