

1,1,1,2,2,3,4,4,5,5,5-undecafluoro-3-(trifluoromethyl)

Inchi:	InChI=1S/C6F14/c7-1(4(12,13)14,2(8,9)5(15,16)17)3(10,11)6(18,19)20
InchiKey:	GXSFAIDPYIEIEF-UHFFFAOYSA-N
Formula:	C6F14
SMILES:	FC(F)(F)C(F)(F)C(F)(C(F)(F)F)C(F)(F)C(F)(F)F
Mol. weight [g/mol]:	338.04
CAS:	865-71-4

Physical Properties

Property code	Value	Unit	Source
gf	-2710.66	kJ/mol	Joback Method
hf	-2965.21	kJ/mol	Joback Method
hfus	9.93	kJ/mol	Joback Method
hvap	9.74	kJ/mol	Joback Method
log10ws	-4.91		Crippen Method
logp	4.652		Crippen Method
mcvol	120.180	ml/mol	McGowan Method
pc	1874.03	kPa	Joback Method
tb	307.08	K	Joback Method
tc	418.08	K	Joback Method
tf	180.16	K	Joback Method
tt	157.75 ± 0.30	K	NIST Webbook
vc	0.557	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	263.70	J/mol×K	307.08	Joback Method
cpg	276.21	J/mol×K	325.58	Joback Method
cpg	288.03	J/mol×K	344.08	Joback Method
cpg	299.18	J/mol×K	362.58	Joback Method
cpg	309.69	J/mol×K	381.08	Joback Method
cpg	319.57	J/mol×K	399.58	Joback Method
cpg	328.86	J/mol×K	418.08	Joback Method
hvapt	30.80	kJ/mol	307.50	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=C865714&Units=SI

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
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
tt:	Triple Point Temperature
vc:	Critical Volume

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