

Perfluoroundecane

Inchi:	InChI=1S/C11F24/c12-1(13,2(14,15)4(18,19)6(22,23)8(26,27)10(30,31)32)3(16,17)5(20,21)7
InchiKey:	VCIVYCHKSHULON-UHFFFAOYSA-N
Formula:	C11F24
SMILES:	FC(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)F
Mol. weight [g/mol]:	588.08

Physical Properties

Property code	Value	Unit	Source
gf	-4602.46	kJ/mol	Joback Method
hf	-5073.26	kJ/mol	Joback Method
hfus	16.61	kJ/mol	Joback Method
hvap	6.22	kJ/mol	Joback Method
log10ws	-8.58		Crippen Method
logp	7.829		Crippen Method
mcvol	208.330	ml/mol	McGowan Method
pc	1011.02	kPa	Joback Method
rinpol	473.00		NIST Webbook
tb	398.03	K	Joback Method
tc	499.71	K	Joback Method
tf	254.51	K	Joback Method
vc	0.963	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	563.95	J/molxK	398.03	Joback Method
cpg	579.38	J/molxK	414.98	Joback Method
cpg	593.91	J/molxK	431.92	Joback Method
cpg	607.58	J/molxK	448.87	Joback Method
cpg	620.41	J/molxK	465.81	Joback Method
cpg	632.45	J/molxK	482.76	Joback Method
cpg	643.71	J/molxK	499.71	Joback Method

Sources

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=R24506&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
hvac:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccol:	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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