

Other names

3,6,9,12,15,18,21,24,27,30,33,36-Dodecaoxaheptatriacont-1-yl

pentafluoropropionate

ORGDNILXSVQYHH-UHFFFAOYSA-N

C28H51F5O14

COC(=O)CCCCC(F)(F)F

706.69

Property code	Value	Unit	Source
gf	-2277.41	kJ/mol	Joback Method
hf	-3450.74	kJ/mol	Joback Method
hfus	85.89	kJ/mol	Joback Method
hvap	109.32	kJ/mol	Joback Method
log10ws	-0.43		Crippen Method
logp	1.556		Crippen Method
mcvol	492.110	ml/mol	McGowan Method
pc	553.37	kPa	Joback Method
rinpol	3516.80		NIST Webbook
tb	1175.26	K	Joback Method
tc	1631.41	K	Joback Method
tf	752.03	K	Joback Method
vc	1.911	m3/kmol	Joback Method

Property code	Value	Unit	Temperature [K]	Source
cpg	1785.56	J/mol×K	1175.26	Joback Method
cpg	1785.18	J/mol×K	1251.28	Joback Method
cpg	1769.57	J/mol×K	1327.31	Joback Method
cpg	1738.12	J/mol×K	1403.33	Joback Method
cpg	1690.24	J/mol×K	1479.36	Joback Method
cpg	1625.32	J/mol×K	1555.38	Joback Method
cpg	1542.77	J/mol×K	1631.41	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U351978&Units=SI
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

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
mccv:	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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