2-Norbornanemethanol, pentafluoropropionate

Inchi: InChI=1S/C11H13F5O2/c12-10(13,11(14,15)16)9(17)18-5-8-4-6-1-2-7(8)3-6/h6-8H,1-5H
InchiKey: JQIFNNXRZJZTGK-UHFFFAOYSA-N
Formula: C11H13F5O2
SMILES: O=C(OCC1CC2CCC1C2)C(F)(F)C(F)(F)F
Mol. weight [g/mol]: 272.21

Physical Properties

Property code	Value	Unit	Source
gf	-1058.86	kJ/mol	Joback Method
hf	-1394.12	kJ/mol	Joback Method
hfus	22.85	kJ/mol	Joback Method
hvap	42.25	kJ/mol	Joback Method
log10ws	-3.33		Crippen Method
logp	3.163		Crippen Method
mcvol	160.420	ml/mol	McGowan Method
pc	2137.41	kPa	Joback Method
rinpol	1102.00		NIST Webbook
rinpol	1102.00		NIST Webbook
tb	530.34	K	Joback Method
tc	709.50	K	Joback Method
tf	321.80	K	Joback Method
vc	0.648	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	435.92	J/mol×K	530.34	Joback Method
cpg	452.16	J/mol×K	560.20	Joback Method
cpg	467.35	J/mol×K	590.06	Joback Method
cpg	481.54	J/mol×K	619.92	Joback Method
cpg	494.79	J/mol×K	649.78	Joback Method
cpg	507.17	J/mol×K	679.64	Joback Method
cpg	518.74	J/mol×K	709.50	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U376175&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
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