

# Isoborneol,heptafluorobutyrate (ester)

<b>Other names:</b>	Borneol, heptafluorobutanoate
<b>Inchi:</b>	InChI=1S/C14H17F7O2/c1-10(2)7-4-5-11(10,3)8(6-7)23-9(22)12(15,16)13(17,18)14(19,2
<b>InchiKey:</b>	KOALQGAPENVJF-UHFFFAOYSA-N
<b>Formula:</b>	C14H17F7O2
<b>SMILES:</b>	CC1(C)C2CCC1(C)C(OC(=O)C(F)(F)C(F)(F)C(F)(F)F)C2
<b>Mol. weight [g/mol]:</b>	350.27

## Physical Properties

Property code	Value	Unit	Source
gf	-1439.07	kJ/mol	Joback Method
hf	-1846.87	kJ/mol	Joback Method
hfus	17.84	kJ/mol	Joback Method
hvap	43.39	kJ/mol	Joback Method
log10ws	-5.01		Crippen Method
logp	4.577		Crippen Method
mcvol	206.230	ml/mol	McGowan Method
pc	1645.76	kPa	Joback Method
rinpol	1198.00		NIST Webbook
rinpol	1198.00		NIST Webbook
tb	590.10	K	Joback Method
tc	770.09	K	Joback Method
tf	402.77	K	Joback Method
vc	0.837	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	604.92	J/molxK	590.10	Joback Method
cpg	621.54	J/molxK	620.10	Joback Method
cpg	637.04	J/molxK	650.10	Joback Method
cpg	651.58	J/molxK	680.10	Joback Method
cpg	665.35	J/molxK	710.10	Joback Method
cpg	678.50	J/molxK	740.09	Joback Method
cpg	691.21	J/molxK	770.09	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U245883&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U245883&amp;Units=SI</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvp:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinp:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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