

# 1-Methylcyclohexanol, heptafluorobutyrate

<b>Inchi:</b>	InChI=1S/C11H13F7O2/c1-8(5-3-2-4-6-8)20-7(19)9(12,13)10(14,15)11(16,17)18/h2-6H2
<b>InchiKey:</b>	KQMFUMNYSRKOTO-UHFFFAOYSA-N
<b>Formula:</b>	C11H13F7O2
<b>SMILES:</b>	CC1(OC(=O)C(F)(F)C(F)(F)C(F)(F)F)CCCC1
<b>Mol. weight [g/mol]:</b>	310.21

## Physical Properties

Property code	Value	Unit	Source
gf	-1528.37	kJ/mol	Joback Method
hf	-1844.63	kJ/mol	Joback Method
hfus	11.89	kJ/mol	Joback Method
hvap	38.91	kJ/mol	Joback Method
log10ws	-4.59		Crippen Method
logp	4.085		Crippen Method
mcvol	174.820	ml/mol	McGowan Method
pc	2000.12	kPa	Joback Method
rinpola	992.00		NIST Webbook
tb	532.36	K	Joback Method
tc	711.36	K	Joback Method
tf	328.56	K	Joback Method
vc	0.700	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	469.16	J/mol×K	532.36	Joback Method
cpg	485.24	J/mol×K	562.19	Joback Method
cpg	500.17	J/mol×K	592.03	Joback Method
cpg	514.05	J/mol×K	621.86	Joback Method
cpg	526.97	J/mol×K	651.69	Joback Method
cpg	539.05	J/mol×K	681.52	Joback Method
cpg	550.36	J/mol×K	711.36	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=U376253&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U376253&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>h vap:</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>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r inpol:</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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