

# 3-Nitrobenzyl alcohol, heptafluorobutyrate

<b>Inchi:</b>	InChI=1S/C11H6F7NO4/c12-9(13,10(14,15)11(16,17)18)8(20)23-5-6-2-1-3-7(4-6)19(21)2
<b>InchiKey:</b>	HWXCMQNJHLYUJP-UHFFFAOYSA-N
<b>Formula:</b>	C11H6F7NO4
<b>SMILES:</b>	O=C(OCc1cccc([N+](=O)[O-])c1)C(F)(F)C(F)(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	349.16

## Physical Properties

Property code	Value	Unit	Source
gf	-1409.00	kJ/mol	Joback Method
hf	-1699.89	kJ/mol	Joback Method
hfus	31.36	kJ/mol	Joback Method
hvap	59.16	kJ/mol	Joback Method
log10ws	-4.83		Crippen Method
logp	3.471		Crippen Method
mvol	179.340	ml/mol	McGowan Method
pc	2147.32	kPa	Joback Method
rinpol	1458.00		NIST Webbook
rinpol	1458.00		NIST Webbook
tb	696.07	K	Joback Method
tc	898.84	K	Joback Method
tf	479.83	K	Joback Method
vc	0.743	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	510.59	J/molxK	696.07	Joback Method
cpg	520.39	J/molxK	729.86	Joback Method
cpg	529.29	J/molxK	763.66	Joback Method
cpg	537.37	J/molxK	797.45	Joback Method
cpg	544.71	J/molxK	831.25	Joback Method
cpg	551.38	J/molxK	865.04	Joback Method
cpg	557.47	J/molxK	898.84	Joback Method

# Sources

<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=U376153&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U376153&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>hvap:</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>rinpola:</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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