

# 3-Nitrobenzyl alcohol, pentafluoropropionate

<b>Inchi:</b>	InChI=1S/C10H6F5NO4/c11-9(12,10(13,14)15)8(17)20-5-6-2-1-3-7(4-6)16(18)19/h1-4H,
<b>InchiKey:</b>	BIGJTYYYNLMSSD-UHFFFAOYSA-N
<b>Formula:</b>	C10H6F5NO4
<b>SMILES:</b>	O=C(OCc1cccc([N+](=O)[O-])c1)C(F)(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	299.15

## Physical Properties

Property code	Value	Unit	Source
gf	-1030.64	kJ/mol	Joback Method
hf	-1278.28	kJ/mol	Joback Method
hfus	30.03	kJ/mol	Joback Method
hvap	59.86	kJ/mol	Joback Method
log10ws	-4.10		Crippen Method
logp	2.836		Crippen Method
mcvol	161.710	ml/mol	McGowan Method
pc	2522.65	kPa	Joback Method
rinpola	1423.00		NIST Webbook
tb	677.88	K	Joback Method
tc	889.99	K	Joback Method
tf	464.96	K	Joback Method
vc	0.661	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	441.87	J/mol×K	677.88	Joback Method
cpg	451.85	J/mol×K	713.23	Joback Method
cpg	460.96	J/mol×K	748.58	Joback Method
cpg	469.24	J/mol×K	783.93	Joback Method
cpg	476.77	J/mol×K	819.28	Joback Method
cpg	483.59	J/mol×K	854.63	Joback Method
cpg	489.79	J/mol×K	889.99	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U376154&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U376154&amp;Units=SI</a>
<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>

# 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>rinpol:</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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