

# 2,3,4,5,6-Pentafluorobenzyl alcohol

<b>Other names:</b>	Pentafluorobenzyl alcohol Benzenemethanol, 2,3,4,5,6-pentafluoro- Benzyl alcohol, 2,3,4,5,6-pentafluoro- (Hydroxymethyl)pentafluorobenzene (Pentafluorophenyl)methanol 2,3,4,5,6-pentafluorobenzyl alcohol
<b>Inchi:</b>	InChI=1S/C7H3F5O/c8-3-2(1-13)4(9)6(11)7(12)5(3)10/h13H,1H2
<b>InchiKey:</b>	PGJYYCIOYBZTPU-UHFFFAOYSA-N
<b>Formula:</b>	C7H3F5O
<b>SMILES:</b>	OCc1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	198.09
<b>CAS:</b>	440-60-8

## Physical Properties

Property code	Value	Unit	Source
gf	-1038.55	kJ/mol	Joback Method
hf	-1141.41	kJ/mol	Joback Method
hfus	25.47	kJ/mol	Joback Method
hvap	49.36	kJ/mol	Joback Method
log10ws	-3.27		Crippen Method
logp	1.874		Crippen Method
mcvol	100.450	ml/mol	McGowan Method
pc	3202.78	kPa	Joback Method
tb	454.00 ± 1.00	K	NIST Webbook
tb	454.20	K	NIST Webbook
tc	661.64	K	Joback Method
tf	321.44	K	Joback Method
vc	0.428	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	222.50	J/mol×K	499.67	Joback Method
cpg	228.55	J/mol×K	526.66	Joback Method

cpg	234.39	J/mol×K	553.66	Joback Method
cpg	240.01	J/mol×K	580.65	Joback Method
cpg	245.42	J/mol×K	607.65	Joback Method
cpg	250.62	J/mol×K	634.64	Joback Method
cpg	255.61	J/mol×K	661.64	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	387.70	K	8.00	NIST Webbook

## Sources

<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=C440608&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C440608&amp;Units=SI</a>
<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.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>

## 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>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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