

# Benzenemethanol, «alpha»-methyl-2-(trifluoromethyl)-

<b>Other names:</b>	Benzyl alcohol, «alpha»-methyl-o-(trifluoromethyl)- «alpha»-Methyl-2-(trifluoromethyl)benzyl alcohol «alpha»-Methyl-o-trifluoromethylbenzyl alcohol 1-[2-(Trifluoromethyl)phenyl]ethanol
<b>Inchi:</b>	InChI=1S/C9H9F3O/c1-6(13)7-4-2-3-5-8(7)9(10,11)12/h2-6,13H,1H3
<b>InchiKey:</b>	VGHBIJTMFYTPY-UHFFFAOYSA-N
<b>Formula:</b>	C9H9F3O
<b>SMILES:</b>	CC(O)c1ccccc1C(F)(F)F
<b>Mol. weight [g/mol]:</b>	190.16
<b>CAS:</b>	79756-81-3

## Physical Properties

Property code	Value	Unit	Source
gf	-593.17	kJ/mol	Joback Method
hf	-758.62	kJ/mol	Joback Method
hfus	15.11	kJ/mol	Joback Method
hvap	51.11	kJ/mol	Joback Method
log10ws	-3.10		Crippen Method
logp	2.759		Crippen Method
mcvol	125.090	ml/mol	McGowan Method
pc	3149.09	kPa	Joback Method
tb	523.30	K	Joback Method
tc	706.82	K	Joback Method
tf	280.14	K	Joback Method
vc	0.487	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	295.15	J/molxK	523.30	Joback Method
cpg	305.96	J/molxK	553.89	Joback Method
cpg	316.10	J/molxK	584.47	Joback Method
cpg	325.59	J/molxK	615.06	Joback Method
cpg	334.47	J/molxK	645.65	Joback Method

cpg	342.78	J/mol×K	676.24	Joback Method
cpg	350.54	J/mol×K	706.82	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	387.50 ± 0.50	K	0.30	NIST Webbook

## Sources

<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=C79756813&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C79756813&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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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