

3-Chloro-4-methylbenzyl alcohol

Other names:	Benzenemethanol, 3-chloro-4-methyl-
Inchi:	InChI=1S/C8H9ClO/c1-6-2-3-7(5-10)4-8(6)9/h2-4,10H,5H2,1H3
InchiKey:	NLRJZTGNCBMNKS-UHFFFAOYSA-N
Formula:	C8H9ClO
SMILES:	Cc1ccc(CO)cc1Cl
Mol. weight [g/mol]:	156.61
CAS:	39652-32-9

Physical Properties

Property code	Value	Unit	Source
gf	-39.12	kJ/mol	Joback Method
hf	-162.83	kJ/mol	Joback Method
hfus	18.02	kJ/mol	Joback Method
hvap	58.07	kJ/mol	Joback Method
log10ws	-2.78		Crippen Method
logp	2.141		Crippen Method
mcvol	117.930	ml/mol	McGowan Method
pc	3763.78	kPa	Joback Method
tb	548.69	K	Joback Method
tc	753.32	K	Joback Method
tf	322.12	K	Joback Method
vc	0.444	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	246.18	J/mol×K	548.69	Joback Method
cpg	255.58	J/mol×K	582.80	Joback Method
cpg	264.46	J/mol×K	616.90	Joback Method
cpg	272.84	J/mol×K	651.01	Joback Method
cpg	280.75	J/mol×K	685.11	Joback Method
cpg	288.19	J/mol×K	719.22	Joback Method
cpg	295.19	J/mol×K	753.32	Joback Method
dvisc	0.0047515	Pa×s	322.12	Joback Method

dvisc	0.0018562	Pa×s	359.88	Joback Method
dvisc	0.0008668	Pa×s	397.64	Joback Method
dvisc	0.0004620	Pa×s	435.40	Joback Method
dvisc	0.0002722	Pa×s	473.17	Joback Method
dvisc	0.0001735	Pa×s	510.93	Joback Method
dvisc	0.0001176	Pa×s	548.69	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	410.50 ± 0.50	K	0.90	NIST Webbook

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C39652329&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature

tf: Normal melting (fusion) point
vc: Critical Volume

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