

2-Propanol, 1,1,1-trichloro-2-methyl-

Other names: «beta»,«beta»,«beta»-Trichloro-tert-butyl alcohol

Acetochlorone

Acetone chloroform

Chlorobutanol

Chlorbutanol

Chlorbutol

Chloreton

Chloretone

Chlortran

Clortran

Dentalone

Khloreton

Methaform

Sedaform

Trichloro-tert-butyl alcohol

1,1,1-Trichloro-tert-butyl alcohol

2-(Trichloromethyl)-2-propanol

2-(Trichloromethyl)propan-2-ol

1,1,1-Trichloro-2-methyl-2-propanol

tert-Trichlorobutyl alcohol

Acetonchloroform

HCP

2-Propanol, 2-methyl-1,1,1-trichloro-

Trichloro-tert-butanol

Trichloro-t-butyl alcohol

t-Trichlorobutyl alcohol

2,2,2-Trichloro-1,1-dimethylethanol

Coliquifilm

Trichlorobutanol

Anhydrous chlorobutanol

NSC 44794

Inchi: InChI=1S/C4H7Cl3O/c1-3(2,8)4(5,6)7/h8H,1-2H3

InchiKey: OSASVXMJTNOKOY-UHFFFAOYSA-N

Formula: C4H7Cl3O

SMILES: CC(C)(O)C(Cl)(Cl)Cl

Mol. weight [g/mol]: 177.46

CAS: 57-15-8

Physical Properties

Property code	Value	Unit	Source
gf	-184.13	kJ/mol	Joback Method
hf	-342.84	kJ/mol	Joback Method
hfus	7.97	kJ/mol	Joback Method
hvap	51.74	kJ/mol	Joback Method
ie	10.38	eV	NIST Webbook
log10ws	-2.43		Crippen Method
logp	2.128		Crippen Method
mcvol	109.810	ml/mol	McGowan Method
pc	3990.60	kPa	Joback Method
rinpol	976.00		NIST Webbook
rinpol	976.00		NIST Webbook
rinpol	949.00		NIST Webbook
rinpol	949.00		NIST Webbook
rinpol	976.00		NIST Webbook
ripol	1638.00		NIST Webbook
ripol	1638.00		NIST Webbook
tb	440.20	K	NIST Webbook
tb	442.00 ± 4.00	K	NIST Webbook
tc	694.13	K	Joback Method
tf	371.90 ± 1.50	K	NIST Webbook
vc	0.404	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	206.55	J/mol×K	488.93	Joback Method
cpg	237.95	J/mol×K	659.93	Joback Method
cpg	232.81	J/mol×K	625.73	Joback Method
cpg	227.15	J/mol×K	591.53	Joback Method
cpg	220.93	J/mol×K	557.33	Joback Method
cpg	214.08	J/mol×K	523.13	Joback Method
cpg	242.62	J/mol×K	694.13	Joback Method
dvisc	0.0002274	Pa×s	488.93	Joback Method
dvisc	0.0003769	Pa×s	455.82	Joback Method
dvisc	0.0006763	Pa×s	422.71	Joback Method
dvisc	0.0013403	Pa×s	389.60	Joback Method

dvisc	0.0030159	Pa×s	356.48	Joback Method
dvisc	0.0080124	Pa×s	323.37	Joback Method
dvisc	0.0266028	Pa×s	290.26	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C57158&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log_{10ws}:	Log10 of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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