

Alpha,alpha,alpha',alpha'-tetramethyl-1,4-benzenediol

Other names:	«alpha»,«alpha»'-Dihydroxy-p-diisopropylbenzene 1,4-Benzenedimethanol, «alpha»,«alpha»,«alpha»',«alpha»'-tetramethyl-alpha,alpha,alpha',alpha'-Tetramethyl-1,4-benzenedimethanol «alpha»,«alpha»,«alpha»',«alpha»'-tetramethyl-p-xylene-«alpha»,«alpha»'-diol
Inchi:	InChI=1S/C12H18O2/c1-11(2,13)9-5-7-10(8-6-9)12(3,4)14/h5-8,13-14H,1-4H3
InchiKey:	LEARFTRDZQQTDN-UHFFFAOYSA-N
Formula:	C12H18O2
SMILES:	CC(C)(O)c1ccc(C(C)(C)O)cc1
Mol. weight [g/mol]:	194.27

Physical Properties

Property code	Value	Unit	Source
chs	-6751.60 ± 1.40	kJ/mol	NIST Webbook
hf	-416.69	kJ/mol	Cheméo Relay (1.0)
hfs	-543.00 ± 1.50	kJ/mol	NIST Webbook
hfus	13.84	kJ/mol	Joback Method
hsub	136.80 ± 2.80	kJ/mol	NIST Webbook
hvap	97.16	kJ/mol	Cheméo Relay (1.0)
ie	8.75	eV	Cheméo Relay (1.0)
log10ws	-2.35		Cheméo Relay (1.0)
logp	2.141		Crippen Method
mcvol	167.920	ml/mol	McGowan Method
pc	2979.54	kPa	Joback Method
tb	526.02	K	Cheméo Relay (1.0)
tc	775.19	K	Cheméo Relay (1.0)
tf	395.94	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	468.07	J/mol×K	683.52	Joback Method
cpg	480.04	J/mol×K	716.49	Joback Method
cpg	491.22	J/mol×K	749.46	Joback Method
cpg	501.68	J/mol×K	782.42	Joback Method

cpg	511.48	J/mol×K	815.39	Joback Method
cpg	520.68	J/mol×K	848.36	Joback Method
cpg	529.35	J/mol×K	881.33	Joback Method
dvisc	0.0036683	Pa×s	390.42	Joback Method
dvisc	0.0008008	Pa×s	439.27	Joback Method
dvisc	0.0002371	Pa×s	488.12	Joback Method
dvisc	0.0000876	Pa×s	536.97	Joback Method
dvisc	0.0000382	Pa×s	585.82	Joback Method
dvisc	0.0000189	Pa×s	634.67	Joback Method
dvisc	0.0000104	Pa×s	683.52	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2948461&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

chs:	Standard solid enthalpy of combustion
cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hsub:	Enthalpy of sublimation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
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
tc:	Critical Temperature

tf: Normal melting (fusion) point

Latest version available from:

<https://www.cheméo.com/cid/56-784-0/Alpha-alpha-alpha-alpha-tetramethyl-1-4-benzenedimethanol.pdf>

Generated by Cheméo on 2026-07-21 14:01:50.69873727 +0000 UTC m=+153606.540622663.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.