

uroterpenol

Other names:	2-(4-methyl-3-cyclohexen-1-yl)propane-1,2-diol
Inchi:	InChI=1S/C10H18O2/c1-8-3-5-9(6-4-8)10(2,12)7-11/h3,9,11-12H,4-7H2,1-2H3
InchiKey:	ZJALAEQNHJQSTN-UHFFFAOYSA-N
Formula:	C10H18O2
SMILES:	CC1=CCC(C(C)(O)CO)CC1
Mol. weight [g/mol]:	170.25
CAS:	6252-35-3

Physical Properties

Property code	Value	Unit	Source
gf	-192.70	kJ/mol	Joback Method
hf	-462.31	kJ/mol	Joback Method
hfus	15.09	kJ/mol	Joback Method
hvap	71.30	kJ/mol	Joback Method
log10ws	-2.15		Crippen Method
logp	1.476		Crippen Method
mcvol	148.340	ml/mol	McGowan Method
pc	3269.04	kPa	Joback Method
ripol	2442.00		NIST Webbook
tb	633.02	K	Joback Method
tc	821.85	K	Joback Method
tf	347.18	K	Joback Method
vc	0.541	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	412.62	J/molxK	633.02	Joback Method
cpg	425.64	J/molxK	664.49	Joback Method
cpg	437.90	J/molxK	695.96	Joback Method
cpg	449.45	J/molxK	727.44	Joback Method
cpg	460.32	J/molxK	758.91	Joback Method
cpg	470.54	J/molxK	790.38	Joback Method
cpg	480.16	J/molxK	821.85	Joback Method

dvisc	0.0135407	Paxs	347.18	Joback Method
dvisc	0.0024586	Paxs	394.82	Joback Method
dvisc	0.0006446	Paxs	442.46	Joback Method
dvisc	0.0002192	Paxs	490.10	Joback Method
dvisc	0.0000903	Paxs	537.74	Joback Method
dvisc	0.0000429	Paxs	585.38	Joback Method
dvisc	0.0000228	Paxs	633.02	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C6252353&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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
mvol:	McGowan's characteristic volume
pc:	Critical Pressure
riol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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