1,2-CYCLOHEXANEDIOL, 1-METHYL-4-(1-METHYLETHENYL)-

Other names: 1-Methyl-4-(1-methylethenyl)-1,2-cyclohexanediol
8-p-Menthadien-1,2-diol
8-p-Menthen-1,2-diol
Limonene-1,2-diol
Limonene glycol
limonene-diol
Limonen-1,2-diol
p-Menth-8-en-1,2-diol
1-methyl-4-(1-methylvinyl)cyclohexane-1,2-diol

Inchi: InChI=1S/C10H18O2/c1-7(2)8-4-5-10(3,12)9(11)6-8/h8-9,11-12H,1,4-6H2,2-3H3

InchiKey: WKZWTZTZWGWEGE-UHFFFAOYSA-N

Formula: C10H18O2

SMILES: C=C(C)C1CCC(C)(O)C(O)C1

Mol. weight [g/mol]: 170.25

Physical Properties

Property code	Value	Unit	Source
hfus	14.92	kJ/mol	Joback Method
ie	8.96	eV	Cheméo Relay (1.0)
logp	1.475		Crippen Method
mcvol	148.340	ml/mol	McGowan Method
rinpol	1321.00		NIST Webbook
rinpol	1342.90		NIST Webbook
rinpol	1342.90		NIST Webbook
rinpol	1321.00		NIST Webbook
ripol	2273.00		NIST Webbook
ripol	2325.00		NIST Webbook
ripol	2226.00		NIST Webbook
ripol	2268.00		NIST Webbook
ripol	2290.00		NIST Webbook
ripol	2275.00		NIST Webbook
ripol	2306.00		NIST Webbook
ripol	2273.00		NIST Webbook
tb	534.81	K	Cheméo Relay (1.0)
tf	351.89	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	411.19	J/mol×K	619.57	Joback Method
cpg	424.90	J/mol×K	651.04	Joback Method
cpg	437.94	J/mol×K	682.52	Joback Method
cpg	450.41	J/mol×K	713.99	Joback Method
cpg	462.36	J/mol×K	745.46	Joback Method
cpg	473.88	J/mol×K	776.94	Joback Method
cpg	485.04	J/mol×K	808.41	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=C1946005&Units=SI
Joback Method: https://en.wikipedia.org/wiki/Joback_method

Legend

cpg: Ideal gas heat capacity
hfus: Enthalpy of fusion at standard conditions
ie: Ionization energy
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume
rinpol: Non-polar retention indices
ripol: Polar retention indices
tb: Normal Boiling Point Temperature
tf: Normal melting (fusion) point