2-Cyclohexen-1-ol, 1-methyl-4-(1-methylethenyl)-, trans-

Other names: 1R,4R-p-Mentha-2,8-dien-1-ol
(E)-p-2,8-Menthadien-1-ol
(E)-p-Menth-2,8-dien-1-ol
(E)-p-Mentha-2,8-dien-1-ol
E-p-Mentha-2,8-dienol
Mentha-2,8-dien-1-ol, trans-para
p-Mentha-trans-2,8-dien-1-ol
trans-2,8-p-Mentha-dien-1-ol
trans-p-2,8-Menthadien-1-ol
trans-para-Mentha-2,8-dien-1-ol
trans-p-Menth-2,8-dien-1-ol
trans-p-Mentha-2,8-dien-1-ol
trans-p-Mentha-2,8-diene-1-ol
4-Isopropenyl-1-methyl-2-cyclohexen-1-ol, trans
trans-2,8-Menthadien-1-ol
menthadien-1-ol, (E)-p-2,8
trans-1-Methyl-4-isopropenyl-2-cyclohexen-1-ol
trans-Mentha-2,8-dien-1-ol
trans-1-methyl-4-(1-methylvinyl)cyclohex-2-en-1-ol

Inchi: InChI=1S/C10H16O/c1-8(2)9-4-6-10(3,11)7-5-9/h4,6,9,11H,1,5,7H2,2-3H3/t9-,10-/m0/s1
InchiKey: MKPMHJQMNACGDI-UWVGGRQHSA-N
Formula: C10H16O
SMILES: C=C(C)C1C=CC(C)(O)CC1
Mol. weight [g/mol]: 152.23
CAS: 7212-40-0

Physical Properties

Property code	Value	Unit	Source
gf	17.00	kJ/mol	Joback Method
hf	-179.32	kJ/mol	Joback Method
hfus	10.98	kJ/mol	Joback Method
hvap	53.20	kJ/mol	Joback Method
log10ws	-2.74		Crippen Method
logp	2.280		Crippen Method
mcvol	138.170	ml/mol	McGowan Method
pc	3135.00	kPa	Joback Method
rinpol	1120.00		NIST Webbook

rinpol	1098.00	NIST Webbook
rinpol	1123.00	NIST Webbook
rinpol	1126.00	NIST Webbook
rinpol	1122.00	NIST Webbook
rinpol	1132.00	NIST Webbook
rinpol	1110.00	NIST Webbook
rinpol	1111.00	NIST Webbook
rinpol	1121.90	NIST Webbook
rinpol	1138.00	NIST Webbook
rinpol	1108.00	NIST Webbook
rinpol	1102.00	NIST Webbook
rinpol	1103.00	NIST Webbook
rinpol	1107.00	NIST Webbook
rinpol	1105.00	NIST Webbook
rinpol	1142.00	NIST Webbook
rinpol	1110.00	NIST Webbook
rinpol	1111.00	NIST Webbook
rinpol	1117.00	NIST Webbook
rinpol	1111.00	NIST Webbook
rinpol	1128.00	NIST Webbook
rinpol	1135.00	NIST Webbook
rinpol	1123.00	NIST Webbook
rinpol	1115.00	NIST Webbook
rinpol	1123.00	NIST Webbook
rinpol	1108.00	NIST Webbook
rinpol	1128.00	NIST Webbook
rinpol	1111.00	NIST Webbook
rinpol	1142.00	NIST Webbook
rinpol	1128.00	NIST Webbook
rinpol	1105.00	NIST Webbook
rinpol	1123.00	NIST Webbook
rinpol	1108.00	NIST Webbook
rinpol	1123.00	NIST Webbook
ripol	1622.00	NIST Webbook
ripol	1618.00	NIST Webbook
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ripol	1672.00		NIST Webbook
ripol	1678.00		NIST Webbook
ripol	1639.00		NIST Webbook
ripol	1639.00		NIST Webbook
ripol	1678.00		NIST Webbook
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ripol	1639.00		NIST Webbook
ripol	1678.00		NIST Webbook
ripol	1611.00		NIST Webbook
ripol	1622.00		NIST Webbook
ripol	1639.00		NIST Webbook
ripol	1639.00		NIST Webbook
ripol	1672.00		NIST Webbook
ripol	1639.00		NIST Webbook
tb	531.22	K	Joback Method
tc	733.58	K	Joback Method
tf	275.36	K	Joback Method
vc	0.512	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	331.31	J/mol×K	531.22	Joback Method
cpg	346.46	J/mol×K	564.95	Joback Method
cpg	360.68	J/mol×K	598.67	Joback Method
cpg	374.06	J/mol×K	632.40	Joback Method
cpg	386.71	J/mol×K	666.13	Joback Method
cpg	398.72	J/mol×K	699.85	Joback Method
cpg	410.18	J/mol×K	733.58	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C7212400&Units=SI

Legend

cpg:	Ideal gas heat capacity
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
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