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

Other names: 1-Methyl-4-(methylethyl)-(E)-2-cyclohexenol
(1R,4S)-4-Isopropyl-1-methylcyclohex-2-enol
(E)-p-2-Menthen-1-ol
(E)-p-Menth-2-en-1-ol
(E)-p-Mentha-2-en-1-ol
Menth-2-en-1-ol (trans-p)
Menth-2-en-1-ol- trans-para
p-Menth-2-en-1-ol, trans
t-p-Menth-2-en-1-ol
trans-2-Cyclohexene-1-ol-1-methyl-4(1-methylethyl)
trans-p-2-Menthen-1-ol
trans-para-Menth-2-en-1-ol
trans-para-Menth-2-ene-1-ol
trans-p-Ment-2-en-1-ol
trans-p-Menth-2-en-1-ol
trans-p-Menth-2-ene-1-ol
trans-p-Menth-2-enol
trans-p-Mentha-2-en-1-ol
4-Isopropyl-1-methyl-2-cyclohexen-1-ol, (E)-
trans-2-Menthenol
trans-Menth-2-en-1-ol
4-Isopropyl-1-methyl-2-cyclohexen-1-ol
trans-2-menthen-1-ol
trans-4-(isopropyl)-1-methylcyclohex-2-en-1-ol

Inchi: InChI=1S/C10H18O/c1-8(2)9-4-6-10(3,11)7-5-9/h4,6,8-9,11H,5,7H2,1-3H3/t9-,10-/m1/s1

InchiKey: IZXYHAXVIZHGJV-NXEZZACHSA-N

Formula: C10H18O

SMILES: CC(C)C1C=CC(C)(O)CC1

Mol. weight [g/mol]: 154.25

CAS: 29803-81-4

Physical Properties

Property code	Value	Unit	Source
gf	-64.73	kJ/mol	Joback Method
hf	-300.24	kJ/mol	Joback Method
hfus	10.05	kJ/mol	Joback Method

hvap	53.41	kJ/mol	Joback Method
log10ws	-2.65		Crippen Method
logp	2.360		Crippen Method
mcvol	142.470	ml/mol	McGowan Method
pc	3002.44	kPa	Joback Method
rinpol	1111.00		NIST Webbook
rinpol	1145.00		NIST Webbook
rinpol	1142.00		NIST Webbook
rinpol	1109.00		NIST Webbook
rinpol	1101.00		NIST Webbook
rinpol	1145.00		NIST Webbook
rinpol	1110.00		NIST Webbook
rinpol	1140.00		NIST Webbook
rinpol	1140.00		NIST Webbook
rinpol	1140.00		NIST Webbook
rinpol	1140.00		NIST Webbook
rinpol	1140.00		NIST Webbook
rinpol	1083.00		NIST Webbook
rinpol	1146.00		NIST Webbook
rinpol	1115.00		NIST Webbook
rinpol	1083.00		NIST Webbook
rinpol	1083.00		NIST Webbook
rinpol	1083.00		NIST Webbook
rinpol	1111.00		NIST Webbook
rinpol	1135.00		NIST Webbook
rinpol	1142.00		NIST Webbook
rinpol	1107.00		NIST Webbook
rinpol	1114.00		NIST Webbook
rinpol	1140.00		NIST Webbook
rinpol	1097.00		NIST Webbook
rinpol	1123.00		NIST Webbook
rinpol	1138.00		NIST Webbook
rinpol	1124.00		NIST Webbook
rinpol	1148.00		NIST Webbook
rinpol	1140.00		NIST Webbook
rinpol	1083.00		NIST Webbook
rinpol	1123.00		NIST Webbook
rinpol	1140.00		NIST Webbook
rinpol	1129.00		NIST Webbook
rinpol	1142.00		NIST Webbook
rinpol	1139.00		NIST Webbook
rinpol	1113.00		NIST Webbook
rinpol	1142.00		NIST Webbook
rinpol	1144.00		NIST Webbook

rinpol	1120.00	NIST Webbook
rinpol	1144.00	NIST Webbook
rinpol	1140.00	NIST Webbook
rinpol	1142.00	NIST Webbook
rinpol	1120.00	NIST Webbook
rinpol	1146.00	NIST Webbook
rinpol	1140.00	NIST Webbook
rinpol	1145.00	NIST Webbook
rinpol	1123.00	NIST Webbook
rinpol	1125.00	NIST Webbook
rinpol	1117.00	NIST Webbook
rinpol	1144.00	NIST Webbook
rinpol	1140.00	NIST Webbook
rinpol	1162.00	NIST Webbook
rinpol	1140.00	NIST Webbook
rinpol	1123.00	NIST Webbook
rinpol	1138.00	NIST Webbook
rinpol	1144.00	NIST Webbook
rinpol	1108.00	NIST Webbook
rinpol	1128.00	NIST Webbook
rinpol	1128.00	NIST Webbook
rinpol	1111.00	NIST Webbook
rinpol	1112.00	NIST Webbook
rinpol	1124.00	NIST Webbook
rinpol	1150.40	NIST Webbook
rinpol	1108.00	NIST Webbook
rinpol	1145.00	NIST Webbook
rinpol	1145.00	NIST Webbook
rinpol	1124.00	NIST Webbook
rinpol	1116.00	NIST Webbook
rinpol	1140.00	NIST Webbook
rinpol	1140.00	NIST Webbook
rinpol	1141.00	NIST Webbook
rinpol	1139.00	NIST Webbook
rinpol	1099.00	NIST Webbook
rinpol	1120.00	NIST Webbook
rinpol	1123.00	NIST Webbook
rinpol	1120.00	NIST Webbook
rinpol	1123.00	NIST Webbook
rinpol	1152.00	NIST Webbook
rinpol	1101.00	NIST Webbook
rinpol	1141.00	NIST Webbook
rinpol	1132.00	NIST Webbook
rinpol	1147.00	NIST Webbook

rinpol	1126.00	NIST Webbook
rinpol	1146.00	NIST Webbook
rinpol	1152.00	NIST Webbook
rinpol	1122.00	NIST Webbook
rinpol	1140.00	NIST Webbook
rinpol	1140.00	NIST Webbook
rinpol	1139.00	NIST Webbook
rinpol	1114.00	NIST Webbook
rinpol	1111.00	NIST Webbook
rinpol	1140.00	NIST Webbook
rinpol	1118.00	NIST Webbook
rinpol	1098.00	NIST Webbook
rinpol	1140.00	NIST Webbook
rinpol	1083.00	NIST Webbook
rinpol	1138.00	NIST Webbook
rinpol	1128.00	NIST Webbook
rinpol	1141.00	NIST Webbook
rinpol	1116.00	NIST Webbook
rinpol	1141.00	NIST Webbook
rinpol	1142.00	NIST Webbook
rinpol	1126.00	NIST Webbook
rinpol	1097.00	NIST Webbook
rinpol	1120.00	NIST Webbook
rinpol	1141.00	NIST Webbook
rinpol	1137.00	NIST Webbook
rinpol	1143.00	NIST Webbook
rinpol	1146.00	NIST Webbook
rinpol	1123.00	NIST Webbook
rinpol	1112.00	NIST Webbook
rinpol	1110.00	NIST Webbook
rinpol	1112.00	NIST Webbook
rinpol	1111.00	NIST Webbook
rinpol	1143.00	NIST Webbook
rinpol	1120.00	NIST Webbook
rinpol	1106.00	NIST Webbook
rinpol	1106.00	NIST Webbook
rinpol	1128.00	NIST Webbook
rinpol	1128.00	NIST Webbook
rinpol	1111.00	NIST Webbook
rinpol	1112.00	NIST Webbook
rinpol	1121.00	NIST Webbook
rinpol	1111.00	NIST Webbook
rinpol	1112.00	NIST Webbook
rinpol	1112.00	NIST Webbook

rinpol	1104.00	NIST Webbook
rinpol	1125.00	NIST Webbook
rinpol	1136.00	NIST Webbook
rinpol	1115.00	NIST Webbook
rinpol	1095.00	NIST Webbook
rinpol	1095.00	NIST Webbook
rinpol	1141.00	NIST Webbook
rinpol	1142.00	NIST Webbook
rinpol	1136.00	NIST Webbook
rinpol	1124.00	NIST Webbook
rinpol	1114.00	NIST Webbook
rinpol	1117.00	NIST Webbook
rinpol	1141.00	NIST Webbook
rinpol	1095.00	NIST Webbook
rinpol	1117.00	NIST Webbook
rinpol	1146.00	NIST Webbook
rinpol	1146.00	NIST Webbook
rinpol	1142.00	NIST Webbook
rinpol	1140.00	NIST Webbook
rinpol	1139.00	NIST Webbook
rinpol	1141.00	NIST Webbook
rinpol	1123.00	NIST Webbook
rinpol	1120.00	NIST Webbook
rinpol	1095.00	NIST Webbook
rinpol	1119.00	NIST Webbook
rinpol	1120.00	NIST Webbook
rinpol	1120.00	NIST Webbook
rinpol	1095.00	NIST Webbook
rinpol	1111.00	NIST Webbook
rinpol	1095.00	NIST Webbook
rinpol	1111.00	NIST Webbook
rinpol	1095.00	NIST Webbook
rinpol	1130.00	NIST Webbook
rinpol	1127.00	NIST Webbook
rinpol	1140.00	NIST Webbook
rinpol	1104.00	NIST Webbook
rinpol	1101.00	NIST Webbook
rinpol	1140.00	NIST Webbook
rinpol	1139.00	NIST Webbook
rinpol	1109.00	NIST Webbook
ripol	1606.00	NIST Webbook
ripol	1552.00	NIST Webbook
ripol	1618.00	NIST Webbook
ripol	1557.00	NIST Webbook

ripol	1575.00	NIST Webbook
ripol	1594.00	NIST Webbook
ripol	1604.00	NIST Webbook
ripol	1571.00	NIST Webbook
ripol	1618.00	NIST Webbook
ripol	1561.00	NIST Webbook
ripol	1571.00	NIST Webbook
ripol	1553.00	NIST Webbook
ripol	1562.00	NIST Webbook
ripol	1618.00	NIST Webbook
ripol	1571.00	NIST Webbook
ripol	1578.00	NIST Webbook
ripol	1576.00	NIST Webbook
ripol	1571.00	NIST Webbook
ripol	1578.00	NIST Webbook
ripol	1578.00	NIST Webbook
ripol	1578.00	NIST Webbook
ripol	1578.00	NIST Webbook
ripol	1578.00	NIST Webbook
ripol	1552.00	NIST Webbook
ripol	1584.00	NIST Webbook
ripol	1559.00	NIST Webbook
ripol	1571.00	NIST Webbook
ripol	1571.00	NIST Webbook
ripol	1569.00	NIST Webbook
ripol	1571.00	NIST Webbook
ripol	1571.00	NIST Webbook
ripol	1571.00	NIST Webbook
ripol	1571.00	NIST Webbook
ripol	1571.00	NIST Webbook
ripol	1571.00	NIST Webbook
ripol	1571.00	NIST Webbook
ripol	1571.00	NIST Webbook
ripol	1571.00	NIST Webbook
ripol	1571.00	NIST Webbook
ripol	1571.00	NIST Webbook
ripol	1571.00	NIST Webbook
ripol	1586.00	NIST Webbook
ripol	1571.00	NIST Webbook
ripol	1571.00	NIST Webbook
ripol	1571.00	NIST Webbook
ripol	1571.00	NIST Webbook
ripol	1571.00	NIST Webbook

ripol	1585.00		NIST Webbook
ripol	1618.00		NIST Webbook
ripol	1571.00		NIST Webbook
ripol	1571.00		NIST Webbook
ripol	1571.00		NIST Webbook
ripol	1571.00		NIST Webbook
ripol	1571.00		NIST Webbook
ripol	1571.00		NIST Webbook
ripol	1571.00		NIST Webbook
ripol	1571.00		NIST Webbook
ripol	1571.00		NIST Webbook
ripol	1571.00		NIST Webbook
ripol	1571.00		NIST Webbook
ripol	1571.00		NIST Webbook
ripol	1571.00		NIST Webbook
ripol	1570.00		NIST Webbook
ripol	1574.00		NIST Webbook
ripol	1571.00		NIST Webbook
ripol	1612.00		NIST Webbook
ripol	1609.00		NIST Webbook
ripol	1618.00		NIST Webbook
ripol	1604.00		NIST Webbook
ripol	1571.00		NIST Webbook
ripol	1607.00		NIST Webbook
ripol	1606.00		NIST Webbook
ripol	1609.00		NIST Webbook
ripol	1571.00		NIST Webbook
ripol	1583.00		NIST Webbook
ripol	1571.00		NIST Webbook
tb	534.22	K	Joback Method
tc	733.16	K	Joback Method
tf	276.08	K	Joback Method
vc	0.524	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	350.88	J/mol×K	534.22	Joback Method
cpg	366.76	J/mol×K	567.38	Joback Method
cpg	381.73	J/mol×K	600.53	Joback Method

cpg	395.87	J/mol×K	633.69	Joback Method
cpg	409.26	J/mol×K	666.84	Joback Method
cpg	422.01	J/mol×K	700.00	Joback Method
cpg	434.18	J/mol×K	733.16	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=C29803814&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