4-Isopropyl-1-methylcyclohex-2-enol

Other names: p-Menth-2-en-1-ol
2-p-Menthen-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
InchiKey: IZXYHAXVIZHGJV-UHFFFAOYSA-N
Formula: C10H18O
SMILES: CC(C)C1C=CC(C)(O)CC1
Mol. weight [g/mol]: 154.25
CAS: 619-62-5

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	1125.60		NIST Webbook
rinpol	1125.60		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

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C619625&Units=SI
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

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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