2-Indanol

Other names:	1H-Inden-2-ol, 2,3-dihydro- 2-Hydroxyhydrindene indan-2-ol
Inchi:	InChI=1S/C9H10O/c10-9-5-7-3-1-2-4-8(7)6-9/h1-4,9-10H,5-6H2
InchiKey:	KMGCKSAIIHOKCX-UHFFFAOYSA-N
Formula:	C9H10O
SMILES:	OC1Cc2ccccc2C1
Mol. weight [g/mol]:	134.18
CAS:	4254-29-9

Physical Properties

Property code	Value	Unit	Source
gf	51.61	kJ/mol	Joback Method
hf	-83.46	kJ/mol	Joback Method
hfus	14.94	kJ/mol	Joback Method
hvap	55.16	kJ/mol	Joback Method
ie	8.50	eV	NIST Webbook
log10ws	-1.93		Crippen Method
logp	1.146		Crippen Method
mcvol	108.920	ml/mol	McGowan Method
pc	4194.74	kPa	Joback Method
tb	535.90	K	Joback Method
tc	746.68	K	Joback Method
tf	343.00 ± 2.00	K	NIST Webbook
vc	0.407	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	251.49	J/mol×K	535.90	Joback Method
cpg	263.47	J/mol×K	571.03	Joback Method
cpg	274.64	J/mol×K	606.16	Joback Method
cpg	285.05	J/mol×K	641.29	Joback Method
cpg	294.76	J/mol×K	676.42	Joback Method

cpg	303.82	J/mol×K	711.55	Joback Method
cpg	312.28	J/mol×K	746.68	Joback Method
dvisc	0.0060903	Pa×s	308.89	Joback Method
dvisc	0.0026610	Pa×s	346.72	Joback Method
dvisc	0.0013684	Pa×s	384.56	Joback Method
dvisc	0.0007927	Pa×s	422.39	Joback Method
dvisc	0.0005024	Pa×s	460.23	Joback Method
dvisc	0.0003412	Pa×s	498.06	Joback Method
dvisc	0.0002447	Pa×s	535.90	Joback Method

Sources

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=C4254299&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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