1H-Inden-1-ol, 2,3-dihydro-

Other names:	1-Indanol
	Indan-1-ol
	1-Indanole
	1-Hydroxyhydrindene
	2,3-Dihydro-1H-inden-1-ol
Inchi:	InChI=1S/C9H10O/c10-9-6-5-7-3-1-2-4-8(7)9/h1-4,9-10H,5-6H2
InchiKey:	YIAPLDFPUUJILH-UHFFFAOYSA-N
Formula:	C9H10O
SMILES:	OC1CCc2ccccc21
Mol. weight [g/mol]:	134.18
CAS:	6351-10-6

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
log10ws	-2.28		Crippen Method
logp	1.666		Crippen Method
mcvol	108.920	ml/mol	McGowan Method
pc	4194.74	kPa	Joback Method
rinpol	1229.90		NIST Webbook
rinpol	1224.70		NIST Webbook
rinpol	1229.90		NIST Webbook
rinpol	1224.70		NIST Webbook
rinpol	1229.90		NIST Webbook
rinpol	1228.50		NIST Webbook
rinpol	1228.50		NIST Webbook
rinpol	1229.90		NIST Webbook
rinpol	1232.90		NIST Webbook
rinpol	1232.90		NIST Webbook
tb	535.90	K	Joback Method
tc	746.68	K	Joback Method
tf	313.15 ± 2.00	K	NIST Webbook
tf	328.00 ± 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

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=C6351106&Units=SI

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

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