1H-Indene-1,2-diol, 2,3-dihydro-, cis-

Other names:	1,2-Indandiol, cis-
	cis-1,2-Indandiol
	Indan, 1,2-dihydroxy-, cis-
	cis-1,2-Indanediol
	cis-Indan-1,2-diol
Inchi:	InChI=1S/C9H10O2/c10-8-5-6-3-1-2-4-7(6)9(8)11/h1-4,8-11H,5H2/t8-,9+/m1/s1
InchiKey:	YKXXBEOXRPZVCC-BDAKNGLRSA-N
Formula:	C9H10O2
SMILES:	OC1Cc2ccccc2C1O
Mol. weight [g/mol]:	150.17
CAS:	4647-42-1

Physical Properties

Property code	Value	Unit	Source
chs	-4592.00 ± 4.00	kJ/mol	NIST Webbook
gf	-92.92	kJ/mol	Joback Method
hf	-256.03	kJ/mol	Joback Method
hfus	20.10	kJ/mol	Joback Method
hvap	71.53	kJ/mol	Joback Method
log10ws	-1.65		Crippen Method
logp	0.637		Crippen Method
mcvol	114.790	ml/mol	McGowan Method
pc	4534.68	kPa	Joback Method
rinpol	1400.00		NIST Webbook
tb	623.41	K	Joback Method
tc	820.36	K	Joback Method
tf	365.47	K	Joback Method
vc	0.425	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	301.01	J/mol×K	623.41	Joback Method
cpg	310.98	J/mol×K	656.23	Joback Method

cpg	320.34	J/mol×K	689.06	Joback Method
cpg	329.11	J/mol×K	721.88	Joback Method
cpg	337.35	J/mol×K	754.71	Joback Method
cpg	345.09	J/mol×K	787.53	Joback Method
cpg	352.37	J/mol×K	820.36	Joback Method
dvisc	0.0058361	Pa×s	365.47	Joback Method
dvisc	0.0019449	Pa×s	408.46	Joback Method
dvisc	0.0007990	Pa×s	451.45	Joback Method
dvisc	0.0003832	Pa×s	494.44	Joback Method
dvisc	0.0002067	Pa×s	537.43	Joback Method
dvisc	0.0001222	Pa×s	580.42	Joback Method
dvisc	0.0000776	Pa×s	623.41	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C4647421&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

chs:	Standard solid enthalpy of combustion
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

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