1H-Indene, 1-methylene-

Other names:	1-Methylene-1H-indene
	1-Methylene indene
	1-Methylele-1H-indene
Inchi:	InChI=1S/C10H8/c1-8-6-7-9-4-2-3-5-10(8)9/h2-7H,1H2
InchiKey:	HVVZVBWIBBTXAJ-UHFFFAOYSA-N
Formula:	C10H8
SMILES:	C=C1C=Cc2ccccc21
Mol. weight [g/mol]:	128.17
CAS:	2471-84-3

Physical Properties

Property code	Value	Unit	Source
gf	287.60	kJ/mol	Joback Method
hf	210.49	kJ/mol	Joback Method
hfus	12.44	kJ/mol	Joback Method
hvap	41.47	kJ/mol	Joback Method
log10ws	-3.01		Crippen Method
logp	2.727		Crippen Method
mcvol	108.540	ml/mol	McGowan Method
pc	3699.95	kPa	Joback Method
rinpol	193.80		NIST Webbook
rinpol	194.78		NIST Webbook
rinpol	193.40		NIST Webbook
rinpol	1098.00		NIST Webbook
rinpol	193.80		NIST Webbook
rinpol	1095.00		NIST Webbook
rinpol	1098.00		NIST Webbook
ripol	1763.00		NIST Webbook
ripol	1763.00		NIST Webbook
tb	469.59	K	Joback Method
tc	697.66	K	Joback Method
tf	278.02	K	Joback Method
vc	0.415	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	210.26	J/mol×K	469.59	Joback Method
cpg	222.83	J/mol×K	507.60	Joback Method
cpg	234.43	J/mol×K	545.61	Joback Method
cpg	245.14	J/mol×K	583.63	Joback Method
cpg	255.02	J/mol×K	621.64	Joback Method
cpg	264.15	J/mol×K	659.65	Joback Method
cpg	272.59	J/mol×K	697.66	Joback Method
dvisc	0.0011345	Pa×s	278.02	Joback Method
dvisc	0.0008696	Pa×s	309.95	Joback Method
dvisc	0.0007004	Pa×s	341.88	Joback Method
dvisc	0.0005854	Pa×s	373.81	Joback Method
dvisc	0.0005033	Pa×s	405.73	Joback Method
dvisc	0.0004424	Pa×s	437.66	Joback Method
dvisc	0.0003957	Pa×s	469.59	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=C2471843&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
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