1,2,4-Metheno, 1H-indene

Inchi: InChI=1S/C10H6/c1-2-5-7-4-8-9(5)10(8)6(7)3-1/h1-4,9-10H
InchiKey: ZKOZJNMUXZLEPP-UHFFFAOYSA-N
Formula: C10H6
SMILES: C1=C2C3c4cccc(c41)C23
Mol. weight [g/mol]: 126.15

Physical Properties

Property code	Value	Unit	Source
gf	397.26	kJ/mol	Joback Method
hf	279.71	kJ/mol	Joback Method
hfus	19.59	kJ/mol	Joback Method
hvap	41.60	kJ/mol	Joback Method
log10ws	-2.67		Crippen Method
logp	2.278		Crippen Method
mcvol	91.120	ml/mol	McGowan Method
pc	4119.70	kPa	Joback Method
rinpol	1365.00		NIST Webbook
rinpol	1365.00		NIST Webbook
tb	472.52	K	Joback Method
tc	693.55	K	Joback Method
tf	342.86	K	Joback Method
vc	0.386	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	200.99	J/mol×K	472.52	Joback Method
cpg	211.85	J/mol×K	509.36	Joback Method
cpg	221.46	J/mol×K	546.20	Joback Method
cpg	229.97	J/mol×K	583.03	Joback Method
cpg	237.54	J/mol×K	619.87	Joback Method
cpg	244.35	J/mol×K	656.71	Joback Method
cpg	250.54	J/mol×K	693.55	Joback Method
dvisc	0.0010039	Pa×s	342.86	Joback Method

dvisc	0.0012637	Pa×s	364.47	Joback Method
dvisc	0.0015503	Pa×s	386.08	Joback Method
dvisc	0.0018611	Pa×s	407.69	Joback Method
dvisc	0.0021934	Pa×s	429.30	Joback Method
dvisc	0.0025447	Pa×s	450.91	Joback Method
dvisc	0.0029124	Pa×s	472.52	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=R413402&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume