

4,7-Ethano-1H-indene, octahydro-

Other names:	Tricyclo[5.2.2.0(2.6)]undecane
Inchi:	InChI=1S/C11H18/c1-2-10-8-4-6-9(7-5-8)11(10)3-1/h8-11H,1-7H2
InchiKey:	QQFHDKGHMOYHPI-UHFFFAOYSA-N
Formula:	C11H18
SMILES:	C1CC2C3CCC(CC3)C2C1
Mol. weight [g/mol]:	150.26
CAS:	38255-97-9

Physical Properties

Property code	Value	Unit	Source
gf	192.08	kJ/mol	Joback Method
hf	-84.63	kJ/mol	Joback Method
hfus	15.52	kJ/mol	Joback Method
hvap	39.85	kJ/mol	Joback Method
ie	9.15	eV	NIST Webbook
log10ws	-3.14		Crippen Method
logp	3.223		Crippen Method
mcvol	133.270	ml/mol	McGowan Method
pc	2868.87	kPa	Joback Method
tb	475.17	K	Joback Method
tc	694.16	K	Joback Method
tf	256.27	K	Joback Method
vc	0.505	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	319.54	J/molxK	475.17	Joback Method
cpg	342.32	J/molxK	511.67	Joback Method
cpg	363.54	J/molxK	548.17	Joback Method
cpg	383.31	J/molxK	584.66	Joback Method
cpg	401.73	J/molxK	621.16	Joback Method
cpg	418.89	J/molxK	657.66	Joback Method
cpg	434.88	J/molxK	694.16	Joback Method

dvisc	0.0010505	Paxs	256.27	Joback Method
dvisc	0.0010619	Paxs	292.75	Joback Method
dvisc	0.0010709	Paxs	329.24	Joback Method
dvisc	0.0010782	Paxs	365.72	Joback Method
dvisc	0.0010841	Paxs	402.20	Joback Method
dvisc	0.0010891	Paxs	438.69	Joback Method
dvisc	0.0010934	Paxs	475.17	Joback Method

Sources

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=C38255979&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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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