7-Methylenebicyclo[3.2.0]hept-1-ene

Inchi: InChI=1S/C8H10/c1-6-5-7-3-2-4-8(6)7/h2,4,7-8H,1,3,5H2
InchiKey: SSLJGAWCZAGYAQ-UHFFFAOYSA-N
Formula: C8H10
SMILES: C=C1CC2CC=CC12
Mol. weight [g/mol]: 106.17
CAS: 75960-13-3

Physical Properties

Property code	Value	Unit	Source
gf	208.92	kJ/mol	Joback Method
hf	73.01	kJ/mol	Joback Method
hfus	10.71	kJ/mol	Joback Method
hvap	33.85	kJ/mol	Joback Method
log10ws	-2.18		Crippen Method
logp	2.139		Crippen Method
mcvol	93.260	ml/mol	McGowan Method
pc	3690.97	kPa	Joback Method
tb	398.51	K	Joback Method
tc	603.88	K	Joback Method
tf	226.72	K	Joback Method
vc	0.359	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	174.97	J/mol×K	398.51	Joback Method
cpg	237.67	J/mol×K	569.66	Joback Method
cpg	226.80	J/mol×K	535.43	Joback Method
cpg	215.16	J/mol×K	501.20	Joback Method
cpg	202.67	J/mol×K	466.97	Joback Method
cpg	189.30	J/mol×K	432.74	Joback Method
cpg	247.80	J/mol×K	603.88	Joback Method
dvisc	0.0004671	Pa×s	398.51	Joback Method
dvisc	0.0004669	Pa×s	369.88	Joback Method

dvisc	0.0004666	Pa×s	341.25	Joback Method
dvisc	0.0004662	Pa×s	312.62	Joback Method
dvisc	0.0004658	Pa×s	283.98	Joback Method
dvisc	0.0004653	Pa×s	255.35	Joback Method
dvisc	0.0004647	Pa×s	226.72	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=C75960133&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
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume