Tricyclo[3.3.2.0(2,8)]deca-3,6-diene

Inchi: InChI=1S/C10H12/c1-4-8-9-5-2-7(1)3-6-10(8)9/h1-2,4-5,7-10H,3,6H2
InchiKey: CRIFWZWGMRSLPT-UHFFFAOYSA-N
Formula: C10H12
SMILES: C1=CC2C3C=CC1CCC23
Mol. weight [g/mol]: 132.20
CAS: 768-46-7

Physical Properties

Property code	Value	Unit	Source
gf	255.68	kJ/mol	Joback Method
hf	57.73	kJ/mol	Joback Method
hfus	17.48	kJ/mol	Joback Method
hvap	38.04	kJ/mol	Joback Method
ie	8.02	eV	NIST Webbook
log10ws	-2.43		Crippen Method
logp	2.385		Crippen Method
mcvol	110.580	ml/mol	McGowan Method
pc	3364.54	kPa	Joback Method
tb	446.34	K	Joback Method
tc	664.47	K	Joback Method
tf	250.04	K	Joback Method
vc	0.429	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	242.89	J/mol×K	446.34	Joback Method
cpg	261.44	J/mol×K	482.70	Joback Method
cpg	278.56	J/mol×K	519.05	Joback Method
cpg	294.37	J/mol×K	555.41	Joback Method
cpg	308.96	J/mol×K	591.76	Joback Method
cpg	322.43	J/mol×K	628.12	Joback Method
cpg	334.89	J/mol×K	664.47	Joback Method
dvisc	0.0004087	Pa×s	250.04	Joback Method

dvisc	0.0005202	Pa×s	282.76	Joback Method
dvisc	0.0006298	Pa×s	315.47	Joback Method
dvisc	0.0007356	Pa×s	348.19	Joback Method
dvisc	0.0008365	Pa×s	380.91	Joback Method
dvisc	0.0009322	Pa×s	413.62	Joback Method
dvisc	0.0010224	Pa×s	446.34	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C768467&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

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