

Bicyclo[6.2.0]decapentaene

Inchi:	InChI=1S/C10H8/c1-2-4-6-10-8-7-9(10)5-3-1/h1-8H/b2-1-,3-1-,4-2-,5-3-,6-4-,9-5-,10-6-
InchiKey:	FPEVLUDJYTXDPD-CKSLBRPTSA-N
Formula:	C10H8
SMILES:	c1cccc2ccc-2cc1
Mol. weight [g/mol]:	128.17
CAS:	20455-01-0

Physical Properties

Property code	Value	Unit	Source
gf	252.38	kJ/mol	Joback Method
hf	514.20	kJ/mol	NIST Webbook
hfus	12.72	kJ/mol	Joback Method
hvap	41.77	kJ/mol	Joback Method
log10ws	-3.49		Crippen Method
logp	2.791		Crippen Method
mcvol	108.540	ml/mol	McGowan Method
pc	3896.50	kPa	Joback Method
tb	473.86	K	Joback Method
tc	711.47	K	Joback Method
tf	261.58	K	Joback Method
vc	0.409	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	209.58	J/mol×K	473.86	Joback Method
cpg	268.18	J/mol×K	671.87	Joback Method
cpg	258.39	J/mol×K	632.27	Joback Method
cpg	247.71	J/mol×K	592.67	Joback Method
cpg	236.07	J/mol×K	553.06	Joback Method
cpg	223.38	J/mol×K	513.46	Joback Method
cpg	277.18	J/mol×K	711.47	Joback Method
dvisc	0.0003173	Pa×s	473.86	Joback Method
dvisc	0.0003754	Pa×s	438.48	Joback Method

dvisc	0.0004574	Pa×s	403.10	Joback Method
dvisc	0.0005791	Pa×s	367.72	Joback Method
dvisc	0.0007708	Pa×s	332.34	Joback Method
dvisc	0.0010984	Pa×s	296.96	Joback Method
dvisc	0.0017226	Pa×s	261.58	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C20455010&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

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

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