

1,8-Dihydro-as-indacene

Inchi:	InChI=1S/C12H10/c1-3-9-7-8-10-4-2-6-12(10)11(9)5-1/h1-3,5-7H,4,8H2
InchiKey:	LHBLJJVZXVGWMH-UHFFFAOYSA-N
Formula:	C12H10
SMILES:	<chem>C1=CC2=CCC3=C(C=CC3)C2=C1</chem>
Mol. weight [g/mol]:	154.21
CAS:	18837-46-2

Physical Properties

Property code	Value	Unit	Source
gf	330.52	kJ/mol	Joback Method
hf	212.95	kJ/mol	Joback Method
hfus	16.28	kJ/mol	Joback Method
hvap	47.60	kJ/mol	Joback Method
log10ws	-3.80		Crippen Method
logp	3.069		Crippen Method
mvol	125.860	ml/mol	McGowan Method
pc	3517.91	kPa	Joback Method
rinpol	255.10		NIST Webbook
rinpol	255.00		NIST Webbook
tb	536.72	K	Joback Method
tc	777.86	K	Joback Method
tf	334.86	K	Joback Method
vc	0.487	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	280.00	J/mol×K	536.72	Joback Method
cpg	294.23	J/mol×K	576.91	Joback Method
cpg	307.22	J/mol×K	617.10	Joback Method
cpg	319.10	J/mol×K	657.29	Joback Method
cpg	329.99	J/mol×K	697.48	Joback Method
cpg	340.05	J/mol×K	737.67	Joback Method
cpg	349.39	J/mol×K	777.86	Joback Method

dvisc	0.0014227	Paxs	334.86	Joback Method
dvisc	0.0012105	Paxs	368.50	Joback Method
dvisc	0.0010583	Paxs	402.15	Joback Method
dvisc	0.0009445	Paxs	435.79	Joback Method
dvisc	0.0008569	Paxs	469.43	Joback Method
dvisc	0.0007876	Paxs	503.08	Joback Method
dvisc	0.0007316	Paxs	536.72	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C18837462&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mvol:	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

Latest version available from:

<https://www.chemeo.com/cid/75-442-8/1-8-Dihydro-as-indacene.pdf>

Generated by Cheméo on 2024-04-26 04:48:20.420700048 +0000 UTC m=+16396149.341277361.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.