Anthracene, 9,10-diethyl-9,10-dihydro-

Other names: 9,10-diethyl-9,10-dihydroanthracene
Inchi: InChI=1S/C18H20/c1-3-13-15-9-5-7-11-17(15)14(4-2)18-12-8-6-10-16(13)18/h5-14H,3-4
InchiKey: ALGJBWINEDRYFU-UHFFFAOYSA-N
Formula: C18H20
SMILES: CCC1c2ccccc2C(CC)c2ccccc21
Mol. weight [g/mol]: 236.35
CAS: 46868-29-5

Physical Properties

Property code	Value	Unit	Source
gf	371.38	kJ/mol	Joback Method
hf	93.89	kJ/mol	Joback Method
hfus	30.99	kJ/mol	Joback Method
hvap	60.97	kJ/mol	Joback Method
log10ws	-5.52		Crippen Method
logp	5.084		Crippen Method
mcvol	206.100	ml/mol	McGowan Method
pc	1989.43	kPa	Joback Method
tb	672.36	K	Joback Method
tc	903.37	K	Joback Method
tf	387.72	K	Joback Method
vc	0.791	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	562.22	J/mol×K	672.36	Joback Method
cpg	645.32	J/mol×K	864.86	Joback Method
cpg	630.91	J/mol×K	826.36	Joback Method
cpg	615.51	J/mol×K	787.86	Joback Method
cpg	598.99	J/mol×K	749.36	Joback Method
cpg	581.27	J/mol×K	710.86	Joback Method
cpg	658.82	J/mol×K	903.37	Joback Method
dvisc	0.0005198	Pa×s	672.36	Joback Method

dvisc	0.0005814	Pa×s	624.92	Joback Method
dvisc	0.0006625	Pa×s	577.48	Joback Method
dvisc	0.0007726	Pa×s	530.04	Joback Method
dvisc	0.0009288	Pa×s	482.60	Joback Method
dvisc	0.0011623	Pa×s	435.16	Joback Method
dvisc	0.0015366	Pa×s	387.72	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C46868295&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
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