1,3,6,8-Tetramethylanthracene

Other names: Anthracene, 1,3,6,8-tetramethyl-
Inchi: InChI=1S/C18H18/c1-11-5-13(3)17-10-18-14(4)6-12(2)8-16(18)9-15(17)7-11/h5-10H,1-4
InchiKey: ULCNNXSZTPMOQL-UHFFFAOYSA-N
Formula: C18H18
SMILES: Cc1cc(C)c2cc3c(C)cc(C)cc3cc2c1
Mol. weight [g/mol]: 234.34
CAS: 17526-53-3

Physical Properties

Property code	Value	Unit	Source
gf	378.24	kJ/mol	Joback Method
hf	146.47	kJ/mol	Joback Method
hfus	28.51	kJ/mol	Joback Method
hvap	64.53	kJ/mol	Joback Method
log10ws	-6.98		Crippen Method
logp	5.227		Crippen Method
mcvol	201.800	ml/mol	McGowan Method
pc	2066.12	kPa	Joback Method
tb	700.78	K	Joback Method
tc	937.00	K	Joback Method
tf	447.04	K	Joback Method
vc	0.779	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	530.75	J/mol×K	700.78	Joback Method
cpg	602.50	J/mol×K	897.63	Joback Method
cpg	589.83	J/mol×K	858.26	Joback Method
cpg	576.42	J/mol×K	818.89	Joback Method
cpg	562.17	J/mol×K	779.52	Joback Method
cpg	546.98	J/mol×K	740.15	Joback Method
cpg	614.52	J/mol×K	937.00	Joback Method
dvisc	0.0003925	Pa×s	700.78	Joback Method

dvisc	0.0004376	Pa×s	658.49	Joback Method
dvisc	0.0004953	Pa×s	616.20	Joback Method
dvisc	0.0005708	Pa×s	573.91	Joback Method
dvisc	0.0006730	Pa×s	531.62	Joback Method
dvisc	0.0008162	Pa×s	489.33	Joback Method
dvisc	0.0010269	Pa×s	447.04	Joback Method

Sources

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=C17526533&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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