1,4:5,8:9,10-Trimethanoanthracene, 1,2,3,4,4a,5,8,8a,9,9a,10,10a-dodecahydro-(1«alph

Inchi: InChI=1S/C17H22/c1-2-9-5-8(1)14-12-7-13(15(9)14)17-11-4-3-10(6-11)16(12)17/h1-2,8-1
InchiKey: FUCGLOJSPSEIKX-DTSMLRQCSA-N
Formula: C17H22
SMILES: C1=CC2CC1C1C3CC(C21)C1C2CCC(C2)C31
Mol. weight [g/mol]: 226.36
CAS: 87480-43-1

Physical Properties

Property code	Value	Unit	Source
gf	467.98	kJ/mol	Joback Method
hf	25.17	kJ/mol	Joback Method
hfus	36.20	kJ/mol	Joback Method
hvap	51.80	kJ/mol	Joback Method
ie	8.47	eV	NIST Webbook
log10ws	-3.74		Crippen Method
logp	3.737		Crippen Method
mcvol	180.930	ml/mol	McGowan Method
pc	2083.12	kPa	Joback Method
tb	605.01	K	Joback Method
tc	828.43	K	Joback Method
tf	376.31	K	Joback Method
vc	0.720	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	569.82	J/mol×K	605.01	Joback Method
cpg	594.43	J/mol×K	642.25	Joback Method
cpg	617.19	J/mol×K	679.48	Joback Method
cpg	638.31	J/mol×K	716.72	Joback Method
cpg	658.01	J/mol×K	753.95	Joback Method
cpg	676.51	J/mol×K	791.19	Joback Method
cpg	694.04	J/mol×K	828.43	Joback Method
dvisc	0.0051736	Pa×s	376.31	Joback Method

dvisc	0.0094937	Pa×s	414.43	Joback Method
dvisc	0.0157277	Pa×s	452.54	Joback Method
dvisc	0.0240900	Pa×s	490.66	Joback Method
dvisc	0.0346984	Pa×s	528.78	Joback Method
dvisc	0.0475853	Pa×s	566.89	Joback Method
dvisc	0.0627123	Pa×s	605.01	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C87480431&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