

Anthracene, 9-(1-methylethyl)-

Inchi:	InChI=1S/C17H16/c1-12(2)17-15-9-5-3-7-13(15)11-14-8-4-6-10-16(14)17/h3-12H,1-2H3
InchiKey:	LQRJPEHNMOASNZ-UHFFFAOYSA-N
Formula:	C17H16
SMILES:	CC(C)c1c2ccccc2cc2ccccc12
Mol. weight [g/mol]:	220.31
CAS:	1498-80-2

Physical Properties

Property code	Value	Unit	Source
gf	396.27	kJ/mol	Joback Method
hf	196.24	kJ/mol	Joback Method
hfus	23.56	kJ/mol	Joback Method
hvap	59.93	kJ/mol	Joback Method
log10ws	-6.27		Crippen Method
logp	5.116		Crippen Method
mcvol	187.710	ml/mol	McGowan Method
pc	2377.22	kPa	Joback Method
tb	662.52	K	Joback Method
tc	906.08	K	Joback Method
tf	383.21	K	Joback Method
vc	0.718	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	481.75	J/mol×K	662.52	Joback Method
cpg	498.45	J/mol×K	703.11	Joback Method
cpg	513.88	J/mol×K	743.71	Joback Method
cpg	528.20	J/mol×K	784.30	Joback Method
cpg	541.51	J/mol×K	824.90	Joback Method
cpg	553.97	J/mol×K	865.49	Joback Method
cpg	565.69	J/mol×K	906.08	Joback Method
dvisc	0.0015596	Pa×s	383.21	Joback Method
dvisc	0.0010847	Pa×s	429.76	Joback Method

dvisc	0.0008099	Pa×s	476.31	Joback Method
dvisc	0.0006370	Pa×s	522.87	Joback Method
dvisc	0.0005210	Pa×s	569.42	Joback Method
dvisc	0.0004394	Pa×s	615.97	Joback Method
dvisc	0.0003795	Pa×s	662.52	Joback Method

Sources

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=C1498802&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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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