

Anthracene, 9-methoxy-

Other names:	Anthranol methyl ether 9-Methoxyanthracene
Inchi:	InChI=1S/C15H12O/c1-16-15-13-8-4-2-6-11(13)10-12-7-3-5-9-14(12)15/h2-10H,1H3
InchiKey:	DVRKZTKTNYRYLF-UHFFFAOYSA-N
Formula:	C15H12O
SMILES:	COc1c2ccccc2cc2ccccc12
Mol. weight [g/mol]:	208.26
CAS:	2395-96-2

Physical Properties

Property code	Value	Unit	Source
gf	276.87	kJ/mol	Joback Method
hf	110.58	kJ/mol	Joback Method
hfus	23.10	kJ/mol	Joback Method
hvap	58.27	kJ/mol	Joback Method
ie	7.21 ± 0.03	eV	NIST Webbook
log10ws	-5.20		Crippen Method
logp	4.002		Crippen Method
mcvol	165.400	ml/mol	McGowan Method
pc	2817.33	kPa	Joback Method
tb	639.62	K	Joback Method
tc	884.69	K	Joback Method
tf	397.90	K	Joback Method
vc	0.629	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	405.78	J/mol×K	639.62	Joback Method
cpg	420.62	J/mol×K	680.47	Joback Method
cpg	434.32	J/mol×K	721.31	Joback Method
cpg	446.99	J/mol×K	762.16	Joback Method
cpg	458.73	J/mol×K	803.00	Joback Method
cpg	469.63	J/mol×K	843.85	Joback Method

cpg	479.81	J/mol×K	884.69	Joback Method
dvisc	0.0011606	Pa×s	397.90	Joback Method
dvisc	0.0008834	Pa×s	438.19	Joback Method
dvisc	0.0007041	Pa×s	478.47	Joback Method
dvisc	0.0005813	Pa×s	518.76	Joback Method
dvisc	0.0004934	Pa×s	559.05	Joback Method
dvisc	0.0004281	Pa×s	599.33	Joback Method
dvisc	0.0003781	Pa×s	639.62	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2395962&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

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