

Anthracene, 9,10-dimethoxy-

Inchi:	InChI=1S/C16H14O2/c1-17-15-11-7-3-5-9-13(11)16(18-2)14-10-6-4-8-12(14)15/h3-10H,
InchiKey:	JWJMBKSFTTXMMLL-UHFFFAOYSA-N
Formula:	C16H14O2
SMILES:	COc1c2ccccc2c(OC)c2ccccc12
Mol. weight [g/mol]:	238.28
CAS:	2395-97-3

Physical Properties

Property code	Value	Unit	Source
gf	170.66	kJ/mol	Joback Method
hf	-53.75	kJ/mol	Joback Method
hfus	26.48	kJ/mol	Joback Method
hvap	63.57	kJ/mol	Joback Method
log10ws	-5.32		Crippen Method
logp	4.010		Crippen Method
mcvol	185.360	ml/mol	McGowan Method
pc	2470.27	kPa	Joback Method
tb	689.90	K	Joback Method
tc	926.93	K	Joback Method
tf	443.92	K	Joback Method
vc	0.704	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	480.26	J/molxK	689.90	Joback Method
cpg	495.08	J/molxK	729.41	Joback Method
cpg	508.88	J/molxK	768.91	Joback Method
cpg	521.71	J/molxK	808.42	Joback Method
cpg	533.66	J/molxK	847.92	Joback Method
cpg	544.79	J/molxK	887.43	Joback Method
cpg	555.15	J/molxK	926.93	Joback Method
dvisc	0.0008664	Paxs	443.92	Joback Method
dvisc	0.0006705	Paxs	484.92	Joback Method

dvisc	0.0005401	Paxs	525.91	Joback Method
dvisc	0.0004489	Paxs	566.91	Joback Method
dvisc	0.0003825	Paxs	607.91	Joback Method
dvisc	0.0003325	Paxs	648.90	Joback Method
dvisc	0.0002940	Paxs	689.90	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=C2395973&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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
mccvol:	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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