9-Anthracenemethanol

Other names:	9-Anthrylcarbinol
	9-Hydroxymethylanthracene
	9-Hydroxymethylantracene
	9-Methylolanthracene
	9-Anthracene carbinol
Inchi:	InChI=1S/C15H12O/c16-10-15-13-7-3-1-5-11(13)9-12-6-2-4-8-14(12)15/h1-9,16H,10H2
InchiKey:	JCJNNHDZTLRSGN-UHFFFAOYSA-N
Formula:	C15H12O
SMILES:	OCc1c2ccccc2cc2ccccc12
Mol. weight [g/mol]:	208.26
CAS:	1468-95-7

Physical Properties

Property code	Value	Unit	Source
gf	245.05	kJ/mol	Joback Method
hf	90.57	kJ/mol	Joback Method
hfus	26.00	kJ/mol	Joback Method
hvap	72.54	kJ/mol	Joback Method
log10ws	-5.22		Crippen Method
logp	3.485		Crippen Method
mcvol	165.400	ml/mol	McGowan Method
pc	3173.97	kPa	Joback Method
tb	709.38	K	Joback Method
tc	936.88	K	Joback Method
tf	436.49	K	Joback Method
vc	0.630	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	431.07	J/mol×K	709.38	Joback Method
cpg	442.90	J/mol×K	747.30	Joback Method
cpg	453.92	J/mol×K	785.21	Joback Method
cpg	464.21	J/mol×K	823.13	Joback Method

cpg	473.88	J/mol×K	861.05	Joback Method
cpg	483.03	J/mol×K	898.96	Joback Method
cpg	491.77	J/mol×K	936.88	Joback Method
dvisc	0.0014850	Pa×s	436.49	Joback Method
dvisc	0.0008145	Pa×s	481.97	Joback Method
dvisc	0.0004955	Pa×s	527.45	Joback Method
dvisc	0.0003262	Pa×s	572.93	Joback Method
dvisc	0.0002283	Pa×s	618.42	Joback Method
dvisc	0.0001678	Pa×s	663.90	Joback Method
dvisc	0.0001283	Pa×s	709.38	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=C1468957&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