

9-anthrol

Other names:	1-anthranol
Inchi:	InChI=1S/C14H10O/c15-14-12-7-3-1-5-10(12)9-11-6-2-4-8-13(11)14/h1-9,15H
InchiKey:	AUKRYONWZHRJRE-UHFFFAOYSA-N
Formula:	C14H10O
SMILES:	Oc1c2ccccc2cc2ccccc12
Mol. weight [g/mol]:	194.23

Physical Properties

Property code	Value	Unit	Source
gf	228.46	kJ/mol	Joback Method
hf	97.60	kJ/mol	Joback Method
hfus	25.49	kJ/mol	Joback Method
hvap	65.99	kJ/mol	Joback Method
log10ws	-4.73		Estimated Solubility Method
log10ws	-4.73		Aqueous Solubility Prediction Method
logp	3.699		Crippen Method
mcvol	151.310	ml/mol	McGowan Method
pc	3872.29	kPa	Joback Method
tb	669.96	K	Joback Method
tc	932.17	K	Joback Method
tf	463.60	K	Joback Method
vc	0.521	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	381.08	J/mol×K	669.96	Joback Method
cpg	393.60	J/mol×K	713.66	Joback Method
cpg	405.10	J/mol×K	757.36	Joback Method
cpg	415.82	J/mol×K	801.06	Joback Method
cpg	425.98	J/mol×K	844.77	Joback Method
cpg	435.80	J/mol×K	888.47	Joback Method

cpg	445.51	J/mol×K	932.17	Joback Method
dvisc	0.0006150	Pa×s	463.60	Joback Method
dvisc	0.0003636	Pa×s	497.99	Joback Method
dvisc	0.0002300	Pa×s	532.39	Joback Method
dvisc	0.0001539	Pa×s	566.78	Joback Method
dvisc	0.0001078	Pa×s	601.17	Joback Method
dvisc	0.0000784	Pa×s	635.57	Joback Method
dvisc	0.0000590	Pa×s	669.96	Joback Method

Sources

Estimated Solubility Method: http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt

McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Joback Method: https://en.wikipedia.org/wiki/Joback_method

Aqueous Solubility Prediction Method: <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDataset002.xlsx>

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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