Anthracene, 9-ethenyl-

Other names:	9-Vinylanthracene
	9-Ethenyl anthracene
Inchi:	InChI=1S/C16H12/c1-2-14-15-9-5-3-7-12(15)11-13-8-4-6-10-16(13)14/h2-11H,1H2
InchiKey:	OGOYZCQQQFAGRI-UHFFFAOYSA-N
Formula:	C16H12
SMILES:	C=Cc1c2ccccc2cc2ccccc12
Mol. weight [g/mol]:	204.27
CAS:	2444-68-0

Physical Properties

Property code	Value	Unit	Source
gf	478.13	kJ/mol	Joback Method
hf	347.59	kJ/mol	Joback Method
hfus	23.22	kJ/mol	Joback Method
hvap	57.42	kJ/mol	Joback Method
log10ws	-5.90		Crippen Method
logp	4.636		Crippen Method
mcvol	169.320	ml/mol	McGowan Method
pc	2709.85	kPa	Joback Method
rinpol	311.60		NIST Webbook
rinpol	311.60		NIST Webbook
rinpol	336.76		NIST Webbook
rinpol	334.63		NIST Webbook
rinpol	334.13		NIST Webbook
rinpol	311.70		NIST Webbook
tb	636.76	K	Joback Method
tc	885.82	K	Joback Method
tf	385.18	K	Joback Method
vc	0.648	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	408.65	J/mol×K	636.76	Joback Method

cpg	473.41	J/mol×K	844.31	Joback Method
cpg	462.36	J/mol×K	802.80	Joback Method
cpg	450.50	J/mol×K	761.29	Joback Method
cpg	437.69	J/mol×K	719.78	Joback Method
cpg	423.79	J/mol×K	678.27	Joback Method
cpg	483.79	J/mol×K	885.82	Joback Method
dvisc	0.0004468	Pa×s	636.76	Joback Method
dvisc	0.0005039	Pa×s	594.83	Joback Method
dvisc	0.0005789	Pa×s	552.90	Joback Method
dvisc	0.0006803	Pa×s	510.97	Joback Method
dvisc	0.0008229	Pa×s	469.04	Joback Method
dvisc	0.0010332	Pa×s	427.11	Joback Method
dvisc	0.0013633	Pa×s	385.18	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	336.70	K	1.30	NIST Webbook

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C2444680&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

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume