

1,4-Ethenoanthracene, 1,4-dihydro-

Other names:	2,3-Naphthobarrelene 1,4-Dihydro-1,4-ethenoanthracene
Inchi:	InChI=1S/C16H12/c1-2-4-14-10-16-12-7-5-11(6-8-12)15(16)9-13(14)3-1/h1-12H
InchiKey:	FSVHOWXJQOZKEV-UHFFFAOYSA-N
Formula:	C16H12
SMILES:	C1=CC2C=CC1c1cc3ccccc3cc12
Mol. weight [g/mol]:	204.27
CAS:	27765-96-4

Physical Properties

Property code	Value	Unit	Source
gf	465.06	kJ/mol	Joback Method
hf	292.25	kJ/mol	Joback Method
hfus	26.19	kJ/mol	Joback Method
hvap	56.86	kJ/mol	Joback Method
log10ws	-5.14		Crippen Method
logp	4.147		Crippen Method
mcvol	162.760	ml/mol	McGowan Method
pc	2841.41	kPa	Joback Method
rinpol	342.20		NIST Webbook
rinpol	342.20		NIST Webbook
rinpol	335.80		NIST Webbook
rinpol	336.60		NIST Webbook
tb	632.90	K	Joback Method
tc	885.04	K	Joback Method
tf	391.64	K	Joback Method
vc	0.631	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	417.03	J/mol×K	632.90	Joback Method
cpg	433.27	J/mol×K	674.92	Joback Method
cpg	448.10	J/mol×K	716.95	Joback Method

cpg	461.71	J/molxK	758.97	Joback Method
cpg	474.32	J/molxK	800.99	Joback Method
cpg	486.11	J/molxK	843.02	Joback Method
cpg	497.28	J/molxK	885.04	Joback Method
dvisc	0.0020859	Paxs	391.64	Joback Method
dvisc	0.0019762	Paxs	431.85	Joback Method
dvisc	0.0018896	Paxs	472.06	Joback Method
dvisc	0.0018196	Paxs	512.27	Joback Method
dvisc	0.0017618	Paxs	552.48	Joback Method
dvisc	0.0017133	Paxs	592.69	Joback Method
dvisc	0.0016721	Paxs	632.90	Joback Method

Sources

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=C27765964&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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