

(9E)-Styrylanthracene

Other names:	trans-9-Styrylanthracene
Inchi:	InChI=1S/C22H16/c1-2-8-17(9-3-1)14-15-22-20-12-6-4-10-18(20)16-19-11-5-7-13-21(19)
InchiKey:	HCSGQHDONHRJCM-CCEZHUSRSA-N
Formula:	C22H16
SMILES:	C(=Cc1c2ccccc2cc2ccccc12)c1cccc1
Mol. weight [g/mol]:	280.36
CAS:	1895-98-3

Physical Properties

Property code	Value	Unit	Source
gf	633.44	kJ/mol	Joback Method
hf	452.07	kJ/mol	Joback Method
hfus	34.28	kJ/mol	Joback Method
hvap	73.68	kJ/mol	Joback Method
log10ws	-7.69		Crippen Method
logp	6.163		Crippen Method
mcvol	230.100	ml/mol	McGowan Method
pc	2151.31	kPa	Joback Method
tb	808.20	K	Joback Method
tc	1075.85	K	Joback Method
tf	475.90	K	Joback Method
vc	0.875	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	636.16	J/molxK	808.20	Joback Method
cpg	652.30	J/molxK	852.81	Joback Method
cpg	667.34	J/molxK	897.42	Joback Method
cpg	681.51	J/molxK	942.03	Joback Method
cpg	695.07	J/molxK	986.63	Joback Method
cpg	708.26	J/molxK	1031.24	Joback Method
cpg	721.33	J/molxK	1075.85	Joback Method
dvisc	0.0011407	Paxs	475.90	Joback Method

dvisc	0.0007813	Paxs	531.28	Joback Method
dvisc	0.0005748	Paxs	586.67	Joback Method
dvisc	0.0004459	Paxs	642.05	Joback Method
dvisc	0.0003601	Paxs	697.43	Joback Method
dvisc	0.0003001	Paxs	752.82	Joback Method
dvisc	0.0002565	Paxs	808.20	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C1895983&Units=SI

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	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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