

9-Cinnamylidene fluorene

Inchi:	InChI=1S/C22H16/c1-2-9-17(10-3-1)11-8-16-22-20-14-6-4-12-18(20)19-13-5-7-15-21(19)
InchiKey:	FDELSKWIDIUQDN-DHZHZOJOSA-N
Formula:	C22H16
SMILES:	<chem>C(=Cc1ccccc1)C=C1c2ccccc2-c2ccccc21</chem>
Mol. weight [g/mol]:	280.36
CAS:	2871-26-3

Physical Properties

Property code	Value	Unit	Source
gf	670.67	kJ/mol	Joback Method
hf	487.95	kJ/mol	Joback Method
hfus	35.87	kJ/mol	Joback Method
hvap	73.34	kJ/mol	Joback Method
log10ws	-7.33		Crippen Method
logp	5.812		Crippen Method
mcvol	230.100	ml/mol	McGowan Method
pc	2117.78	kPa	Joback Method
tb	806.43	K	Joback Method
tc	1070.10	K	Joback Method
tf	476.50	K	Joback Method
vc	0.880	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	633.46	J/molxK	806.43	Joback Method
cpg	649.28	J/molxK	850.37	Joback Method
cpg	664.16	J/molxK	894.32	Joback Method
cpg	678.35	J/molxK	938.26	Joback Method
cpg	692.12	J/molxK	982.21	Joback Method
cpg	705.72	J/molxK	1026.15	Joback Method
cpg	719.43	J/molxK	1070.10	Joback Method
dvisc	0.0012396	Paxs	476.50	Joback Method
dvisc	0.0008854	Paxs	531.49	Joback Method

dvisc	0.0006736	Paxs	586.48	Joback Method
dvisc	0.0005370	Paxs	641.47	Joback Method
dvisc	0.0004437	Paxs	696.45	Joback Method
dvisc	0.0003770	Paxs	751.44	Joback Method
dvisc	0.0003276	Paxs	806.43	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=C2871263&Units=SI

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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