

DIBENZ[A,J]ANTHRACENE

Other names:	1,2,7,8-dibenzanthracene 1,2:7,8-Dibenzanthracene 3,4,5,6-Dibenzanthracene Dibenzo(a,j)anthracene Dibenzo-1,2,7,8-anthracene
Inchi:	InChI=1S/C22H14/c1-3-7-19-15(5-1)9-11-17-13-18-12-10-16-6-2-4-8-20(16)22(18)14-21
InchiKey:	KLIHYVJAYWCEDM-UHFFFAOYSA-N
Formula:	C22H14
SMILES:	c1ccc2c(c1)ccc1cc3ccc4ccccc4c3cc12
Mol. weight [g/mol]:	278.35

Physical Properties

Property code	Value	Unit	Source
af	0.6031		Cheméo Relay (1.0)
gf	644.48	kJ/mol	Joback Method
hf	355.38	kJ/mol	Cheméo Relay (1.0)
hfus	33.69	kJ/mol	Joback Method
hvap	128.72	kJ/mol	Cheméo Relay (1.0)
ie	7.15	eV	Cheméo Relay (1.0)
log10ws	-8.57		Cheméo Relay (1.0)
logp	6.299		Crippen Method
mcvol	219.240	ml/mol	McGowan Method
pc	2347.36	kPa	Joback Method
tb	795.32	K	Cheméo Relay (1.0)
tc	1097.81	K	Cheméo Relay (1.0)
tf	519.57	K	Cheméo Relay (1.0)
vc	0.837	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	607.64	J/mol×K	820.30	Joback Method
cpg	622.45	J/mol×K	865.23	Joback Method
cpg	636.52	J/mol×K	910.16	Joback Method

cpg	650.13	J/mol×K	955.09	Joback Method
cpg	663.56	J/mol×K	1000.03	Joback Method
cpg	677.10	J/mol×K	1044.96	Joback Method
cpg	691.04	J/mol×K	1089.89	Joback Method
dvisc	0.0022584	Pa×s	532.48	Joback Method
dvisc	0.0019125	Pa×s	580.45	Joback Method
dvisc	0.0016611	Pa×s	628.42	Joback Method
dvisc	0.0014719	Pa×s	676.39	Joback Method
dvisc	0.0013254	Pa×s	724.36	Joback Method
dvisc	0.0012090	Pa×s	772.33	Joback Method
dvisc	0.0011148	Pa×s	820.30	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C224419&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	

Legend

af:	Acentric Factor
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
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccvol:	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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