3,4:8,9-DIBENZPYRENE

Other names:	Dibenzo[b,def]chrysene
	1,2,6,7-Dibenzpyrene
	DB(a,h)P
	1,2,6,7-Dibenzopyrene
	3,4,8,9-Dibenzpyrene
	Dibenzo[a,h]pyrene
	3,4:8,9-Dibenzpyrene
	3,4,8,9-Dibenzopyrene
Inchi:	InChI=1S/C24H14/c1-3-7-19-15(5-1)13-17-9-12-22-20-8-4-2-6-16(20)14-18-10-11-21(19)
InchiKey:	RXUSYFJGDZFVND-UHFFFAOYSA-N
Formula:	C24H14
SMILES:	c1ccc2c(c1)cc1ccc3c4ccccc4cc4ccc2c1c43
Mol. weight [g/mol]:	302.38

Physical Properties

Property code	Value	Unit	Source
hf	399.95	kJ/mol	Cheméo Relay (1.0)
hfus	38.47	kJ/mol	Joback Method
hvap	141.43	kJ/mol	Cheméo Relay (1.0)
ie	6.82	eV	NIST Webbook
ie	7.04	eV	NIST Webbook
ie	6.75	eV	NIST Webbook
ie	7.39	eV	NIST Webbook
log10ws	-9.27		Cheméo Relay (1.0)
logp	6.890		Crippen Method
mcvol	232.260	ml/mol	McGowan Method
pc	2241.88	kPa	Joback Method
rinpol	546.34		NIST Webbook
rinpol	560.54		NIST Webbook
rinpol	3537.00		NIST Webbook
rinpol	560.15		NIST Webbook
rinpol	563.59		NIST Webbook
rinpol	3537.00		NIST Webbook
rinpol	559.90		NIST Webbook
rinpol	559.90		NIST Webbook
rinpol	560.15		NIST Webbook
rinpol	591.30		NIST Webbook

rinpol	560.15		NIST Webbook
rinpol	3541.00		NIST Webbook
rinpol	3541.00		NIST Webbook
rinpol	560.15		NIST Webbook
rinpol	559.90		NIST Webbook
rinpol	560.54		NIST Webbook
rinpol	3537.00		NIST Webbook
rinpol	3537.00		NIST Webbook
tb	830.28	K	Cheméo Relay (1.0)
tc	1170.81	K	Cheméo Relay (1.0)
tf	561.77	K	Cheméo Relay (1.0)
vc	0.907	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	661.66	J/mol×K	882.32	Joback Method
cpg	676.44	J/mol×K	927.16	Joback Method
cpg	691.24	J/mol×K	972.01	Joback Method
cpg	706.42	J/mol×K	1016.85	Joback Method
cpg	722.35	J/mol×K	1061.69	Joback Method
cpg	739.36	J/mol×K	1106.54	Joback Method
cpg	757.84	J/mol×K	1151.38	Joback Method
dvisc	0.0052883	Pa×s	606.52	Joback Method
dvisc	0.0049439	Pa×s	652.49	Joback Method
dvisc	0.0046630	Pa×s	698.45	Joback Method
dvisc	0.0044300	Pa×s	744.42	Joback Method
dvisc	0.0042338	Pa×s	790.39	Joback Method
dvisc	0.0040664	Pa×s	836.35	Joback Method
dvisc	0.0039222	Pa×s	882.32	Joback Method

Sources

Cheméo Relay (1.0, beta):

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C189640&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):

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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
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