

10,15-Dihydro-5h-diindeno-[2,1-a;1',2'-c]fluorene

Other names:	9H-Tribenzo[a,f,l]trindene, 14,15-dihydro- 14,15-Dihydro-9H-diindeno[1,2-a:2,1-c]fluorene 10,15-Dihydro-5h-diindeno-[2,1-a;1',2'-c]fluorene
Inchi:	InChI=1S/C27H18/c1-4-10-19-16(7-1)13-22-23-14-17-8-2-5-11-20(17)26(23)27-21-12-6-
InchiKey:	VGRJHHLDEYYRNF-UHFFFAOYSA-N
Formula:	C27H18
SMILES:	c1ccc2c(c1)Cc1c3c(c4c(c1-2)Cc1cccc1-4)-c1cccc1C3
Mol. weight [g/mol]:	342.44

Physical Properties

Property code	Value	Unit	Source
hf	474.84	kJ/mol	Cheméo Relay (1.0)
hfus	42.53	kJ/mol	Joback Method
hvap	158.11	kJ/mol	Cheméo Relay (1.0)
ie	7.33	eV	Cheméo Relay (1.0)
log10ws	-10.09		Cheméo Relay (1.0)
logp	6.400		Crippen Method
mcvol	263.670	ml/mol	McGowan Method
tb	823.63	K	Cheméo Relay (1.0)
tc	1159.18	K	Cheméo Relay (1.0)
tf	519.33	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	811.09	J/mol×K	972.33	Joback Method
cpg	829.56	J/mol×K	1017.11	Joback Method
cpg	848.94	J/mol×K	1061.89	Joback Method
cpg	869.64	J/mol×K	1106.67	Joback Method
cpg	892.08	J/mol×K	1151.45	Joback Method
cpg	916.67	J/mol×K	1196.23	Joback Method
cpg	943.84	J/mol×K	1241.01	Joback Method
dvisc	0.0108372	Pa×s	687.55	Joback Method
dvisc	0.0103482	Pa×s	735.01	Joback Method

dvisc	0.0099367	Pa×s	782.48	Joback Method
dvisc	0.0095859	Pa×s	829.94	Joback Method
dvisc	0.0092836	Pa×s	877.40	Joback Method
dvisc	0.0090204	Pa×s	924.87	Joback Method
dvisc	0.0087893	Pa×s	972.33	Joback Method

Sources

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):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C17509716&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point

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