

C17H14

Inchi:	InChI=1S/C17H14/c1-3-7-14(8-4-1)16-11-12-17(13-16)15-9-5-2-6-10-15/h1-12H,13H2
InchiKey:	FTXLGZQLFOVOKK-UHFFFAOYSA-N
Formula:	C17H14
SMILES:	C1=C(c2ccccc2)CC(c2ccccc2)=C1
Mol. weight [g/mol]:	218.29
CAS:	4982-34-7

Physical Properties

Property code	Value	Unit	Source
gf	402.00	kJ/mol	Joback Method
hf	252.29	kJ/mol	Joback Method
hfus	22.40	kJ/mol	Joback Method
hvap	60.46	kJ/mol	Joback Method
log10ws	-5.08		Crippen Method
logp	4.557		Crippen Method
mcvol	183.410	ml/mol	McGowan Method
pc	2676.31	kPa	Joback Method
tb	669.95	K	Joback Method
tc	935.19	K	Joback Method
tf	375.89	K	Joback Method
vc	0.685	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	465.24	J/mol×K	669.95	Joback Method
cpg	483.29	J/mol×K	714.16	Joback Method
cpg	499.73	J/mol×K	758.36	Joback Method
cpg	514.70	J/mol×K	802.57	Joback Method
cpg	528.34	J/mol×K	846.77	Joback Method
cpg	540.79	J/mol×K	890.98	Joback Method
cpg	552.18	J/mol×K	935.19	Joback Method
dvisc	0.0015211	Pa×s	375.89	Joback Method
dvisc	0.0008642	Pa×s	424.90	Joback Method

dvisc	0.0005519	Pa×s	473.91	Joback Method
dvisc	0.0003834	Pa×s	522.92	Joback Method
dvisc	0.0002834	Pa×s	571.93	Joback Method
dvisc	0.0002198	Pa×s	620.94	Joback Method
dvisc	0.0001769	Pa×s	669.95	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C4982347&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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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