

2-ethyl-4-methyl-1,3-pentadienyl benzene

Inchi:	InChI=1S/C14H18/c1-4-6-7-8-14-10-9-12(3)11-13(14)5-2/h4,6-11H,5H2,1-3H3/b6-4+,8-7
InchiKey:	WEPOOWKOIONONL-GFGVWQOPSA-N
Formula:	C14H18
SMILES:	CC=CC=Cc1ccc(C)cc1CC
Mol. weight [g/mol]:	186.29

Physical Properties

Property code	Value	Unit	Source
gf	320.59	kJ/mol	Joback Method
hf	115.74	kJ/mol	Joback Method
hfus	25.68	kJ/mol	Joback Method
hvap	50.27	kJ/mol	Joback Method
log10ws	-4.68		Crippen Method
logp	4.147		Crippen Method
mvol	175.760	ml/mol	McGowan Method
pc	2149.31	kPa	Joback Method
ripol	2096.00		NIST Webbook
tb	564.68	K	Joback Method
tc	778.35	K	Joback Method
tf	288.84	K	Joback Method
vc	0.671	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	405.31	J/molxK	564.68	Joback Method
cpg	422.09	J/molxK	600.29	Joback Method
cpg	437.86	J/molxK	635.90	Joback Method
cpg	452.69	J/molxK	671.52	Joback Method
cpg	466.64	J/molxK	707.13	Joback Method
cpg	479.76	J/molxK	742.74	Joback Method
cpg	492.13	J/molxK	778.35	Joback Method
dvisc	0.0016065	Paxs	288.84	Joback Method
dvisc	0.0007829	Paxs	334.81	Joback Method

dvisc	0.0004538	Paxs	380.79	Joback Method
dvisc	0.0002959	Paxs	426.76	Joback Method
dvisc	0.0002096	Paxs	472.73	Joback Method
dvisc	0.0001579	Paxs	518.71	Joback Method
dvisc	0.0001245	Paxs	564.68	Joback Method

Sources

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=R506084&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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