Benzene, 1,2-bis(1-buten-3-yl)-

Inchi: InChI=1S/C14H18/c1-5-11(3)13-9-7-8-10-14(13)12(4)6-2/h5-12H,1-2H2,3-4H3
InchiKey: VQDSDYULHIDXKS-UHFFFAOYSA-N
Formula: C14H18
SMILES: C=CC(C)c1ccccc1C(C)C=C
Mol. weight [g/mol]: 186.29

Physical Properties

Property code	Value	Unit	Source
gf	340.58	kJ/mol	Joback Method
hf	133.07	kJ/mol	Joback Method
hfus	16.06	kJ/mol	Joback Method
hvap	47.58	kJ/mol	Joback Method
log10ws	-4.39		Crippen Method
logp	4.266		Crippen Method
mcvol	175.760	ml/mol	McGowan Method
pc	2171.40	kPa	Joback Method
rinpol	1350.00		NIST Webbook
rinpol	1350.00		NIST Webbook
tb	543.86	K	Joback Method
tc	755.73	K	Joback Method
tf	252.96	K	Joback Method
vc	0.661	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	403.49	J/mol×K	543.86	Joback Method
cpg	481.67	J/mol×K	720.42	Joback Method
cpg	467.95	J/mol×K	685.11	Joback Method
cpg	453.32	J/mol×K	649.79	Joback Method
cpg	437.73	J/mol×K	614.48	Joback Method
cpg	421.14	J/mol×K	579.17	Joback Method
cpg	494.53	J/mol×K	755.73	Joback Method
dvisc	0.0001627	Pa×s	543.86	Joback Method

dvisc	0.0002153	Pa×s	495.38	Joback Method
dvisc	0.0003028	Pa×s	446.89	Joback Method
dvisc	0.0004626	Pa×s	398.41	Joback Method
dvisc	0.0007947	Pa×s	349.93	Joback Method
dvisc	0.0016249	Pa×s	301.44	Joback Method
dvisc	0.0043706	Pa×s	252.96	Joback Method

Sources

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=U162739&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume