Benzene, 1,4-bis(1-methylethenyl)-

Other names:	Benzene, p-diisopropenyl-
	p-Diisopropenylbenzene
	1,4-Bis(1-methylvinyl)benzene
	1,4-Diisopropenylbenzene
Inchi:	InChI=1S/C12H14/c1-9(2)11-5-7-12(8-6-11)10(3)4/h5-8H,1,3H2,2,4H3
InchiKey:	ZENYUPUKNXGVDY-UHFFFAOYSA-N
Formula:	C12H14
SMILES:	C=C(C)c1ccc(C(=C)C)cc1
Mol. weight [g/mol]:	158.24
CAS:	1605-18-1

Physical Properties

Property code	Value	Unit	Source
gf	311.52	kJ/mol	Joback Method
hf	165.33	kJ/mol	Joback Method
hfus	15.31	kJ/mol	Joback Method
hvap	44.06	kJ/mol	Joback Method
log10ws	-3.96		Crippen Method
logp	3.753		Crippen Method
mcvol	147.580	ml/mol	McGowan Method
pc	2603.08	kPa	Joback Method
tb	501.00	K	NIST Webbook
tc	716.10	K	Joback Method
tf	232.50	K	Joback Method
vc	0.564	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	309.50	J/mol×K	498.74	Joback Method
cpg	325.32	J/mol×K	534.97	Joback Method
cpg	340.17	J/mol×K	571.19	Joback Method
cpg	354.10	J/mol×K	607.42	Joback Method
cpg	367.16	J/mol×K	643.65	Joback Method

cpg	379.39	J/mol×K	679.87	Joback Method
cpg	390.85	J/mol×K	716.10	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=C1605181&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg:	Ideal gas heat capacity
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