Benzene, 1,1'-(1,2-dibromo-1,2-ethanediyl)bis-

Other names:	1,2-Dibromo-1,2-diphenylethane
	Stilbene dibromide
	«alpha»,«alpha»-Dibromobibenzyl
	Bibenzyl, «alpha»,«alpha»'-dibromo-
	(1,2-Dibromo-2-phenylethyl)benzene
	1,1'-(1,2-Dibromo-1,2-ethanediyl)bisbenzene
Inchi:	InChI=1S/C14H12Br2/c15-13(11-7-3-1-4-8-11)14(16)12-9-5-2-6-10-12/h1-10,13-14H
InchiKey:	GKESIQQTGWVOLH-UHFFFAOYSA-N
Formula:	C14H12Br2
SMILES:	BrC(c1ccccc1)C(Br)c1ccccc1
Mol. weight [g/mol]:	340.05
CAS:	5789-30-0

Physical Properties

Property code	Value	Unit	Source
gf	315.58	kJ/mol	Joback Method
hf	182.87	kJ/mol	Joback Method
hfus	23.62	kJ/mol	Joback Method
hvap	63.40	kJ/mol	Joback Method
log10ws	-5.67		Crippen Method
logp	5.259		Crippen Method
mcvol	195.600	ml/mol	McGowan Method
pc	3280.28	kPa	Joback Method
tb	704.52	K	Joback Method
tc	979.66	K	Joback Method
tf	511.00 ± 4.00	K	NIST Webbook
vc	0.716	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	450.47	J/mol×K	704.52	Joback Method
cpg	465.02	J/mol×K	750.38	Joback Method
cpg	478.17	J/mol×K	796.23	Joback Method

cpg	490.08	J/mol×K	842.09	Joback Method
cpg	500.91	J/mol×K	887.94	Joback Method
cpg	510.80	J/mol×K	933.80	Joback Method
cpg	519.93	J/mol×K	979.66	Joback Method
dvisc	0.0018946	Pa×s	389.98	Joback Method
dvisc	0.0009303	Pa×s	442.40	Joback Method
dvisc	0.0005311	Pa×s	494.83	Joback Method
dvisc	0.0003376	Pa×s	547.25	Joback Method
dvisc	0.0002323	Pa×s	599.67	Joback Method
dvisc	0.0001697	Pa×s	652.10	Joback Method
dvisc	0.0001299	Pa×s	704.52	Joback Method

Sources

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
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C5789300&Units=SI

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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