Ethylene, 2-bromo-1,1-diphenyl-

Inchi: InChI=1S/C14H11Br/c15-11-14(12-7-3-1-4-8-12)13-9-5-2-6-10-13/h1-11H
InchiKey: QRDVTIMUEDYLOC-UHFFFAOYSA-N
Formula: C14H11Br
SMILES: BrC=C(c1ccccc1)c1ccccc1
Mol. weight [g/mol]: 259.14
CAS: 13249-58-6

Physical Properties

Property code	Value	Unit	Source
gf	377.81	kJ/mol	Joback Method
hf	274.53	kJ/mol	Joback Method
hfus	24.28	kJ/mol	Joback Method
hvap	57.78	kJ/mol	Joback Method
log10ws	-4.94		Crippen Method
logp	4.471		Crippen Method
mcvol	173.800	ml/mol	McGowan Method
pc	3177.55	kPa	Joback Method
tb	643.28	K	Joback Method
tc	912.13	K	Joback Method
tf	341.14	K	Joback Method
vc	0.646	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	391.35	J/mol×K	643.28	Joback Method
cpg	406.78	J/mol×K	688.09	Joback Method
cpg	420.77	J/mol×K	732.90	Joback Method
cpg	433.46	J/mol×K	777.71	Joback Method
cpg	445.03	J/mol×K	822.51	Joback Method
cpg	455.62	J/mol×K	867.32	Joback Method
cpg	465.39	J/mol×K	912.13	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=C13249586&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