[1-(2-Phenylethyl)vinyl]benzene

Inchi: InChI=1S/C16H16/c1-14(16-10-6-3-7-11-16)12-13-15-8-4-2-5-9-15/h2-11H,1,12-13H2
InchiKey: PWSZACWUDDFZMQ-UHFFFAOYSA-N
Formula: C16H16
SMILES: C=C(CCc1ccccc1)c1ccccc1
Mol. weight [g/mol]: 208.30
CAS: 16606-47-6

Physical Properties

Property code	Value	Unit	Source
gf	387.95	kJ/mol	Joback Method
hf	215.13	kJ/mol	Joback Method
hfus	22.69	kJ/mol	Joback Method
hvap	55.17	kJ/mol	Joback Method
log10ws	-4.75		Crippen Method
logp	4.333		Crippen Method
mcvol	184.480	ml/mol	McGowan Method
pc	2391.19	kPa	Joback Method
tb	615.40	K	Joback Method
tc	854.69	K	Joback Method
tf	307.20	K	Joback Method
vc	0.698	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	450.45	J/mol×K	615.40	Joback Method
cpg	468.83	J/mol×K	655.28	Joback Method
cpg	485.80	J/mol×K	695.16	Joback Method
cpg	501.46	J/mol×K	735.05	Joback Method
cpg	515.89	J/mol×K	774.93	Joback Method
cpg	529.19	J/mol×K	814.81	Joback Method
cpg	541.46	J/mol×K	854.69	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C16606476&Units=SI
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

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