Benzene, (1-methylenebutyl)-

Other names: 2-Phenyl-1-pentene
Inchi: InChI=1S/C11H14/c1-3-7-10(2)11-8-5-4-6-9-11/h4-6,8-9H,2-3,7H2,1H3
InchiKey: ANGVCCXFJKHNDS-UHFFFAOYSA-N
Formula: C11H14
SMILES: C=C(CCC)c1ccccc1
Mol. weight [g/mol]: 146.23
CAS: 5676-32-4

Physical Properties

Property code	Value	Unit	Source
gf	233.44	kJ/mol	Joback Method
hf	81.80	kJ/mol	Joback Method
hfus	15.70	kJ/mol	Joback Method
hvap	41.77	kJ/mol	Joback Method
log10ws	-3.55		Crippen Method
logp	3.500		Crippen Method
mcvol	137.790	ml/mol	McGowan Method
pc	2781.78	kPa	Joback Method
rinpol	1236.30		NIST Webbook
rinpol	1236.30		NIST Webbook
tb	474.15 ± 2.00	K	NIST Webbook
tc	684.75	K	Joback Method
tf	224.43	K	Joback Method
vc	0.525	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	282.40	J/mol×K	474.32	Joback Method
cpg	298.13	J/mol×K	509.39	Joback Method
cpg	312.92	J/mol×K	544.46	Joback Method
cpg	326.83	J/mol×K	579.53	Joback Method
cpg	339.88	J/mol×K	614.61	Joback Method
cpg	352.13	J/mol×K	649.68	Joback Method

cpg	363.61	J/mol×K	684.75	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5676324&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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