

Benzene, (3-methylcyclopentyl)-

Inchi:	InChI=1S/C12H16/c1-10-7-8-12(9-10)11-5-3-2-4-6-11/h2-6,10,12H,7-9H2,1H3
InchiKey:	SIXFIJSVWPHSPL-UHFFFAOYSA-N
Formula:	C12H16
SMILES:	CC1CCC(c2ccccc2)C1
Mol. weight [g/mol]:	160.26
CAS:	5078-75-1

Physical Properties

Property code	Value	Unit	Source
gf	191.41	kJ/mol	Joback Method
hf	-14.34	kJ/mol	Joback Method
hfus	15.88	kJ/mol	Joback Method
hvap	44.53	kJ/mol	Joback Method
log10ws	-3.57		Crippen Method
logp	3.590		Crippen Method
mcvol	145.320	ml/mol	McGowan Method
pc	2793.56	kPa	Joback Method
tb	511.25	K	Joback Method
tc	742.94	K	Joback Method
tf	258.08	K	Joback Method
vc	0.539	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	332.88	J/molxK	511.25	Joback Method
cpg	353.55	J/molxK	549.87	Joback Method
cpg	372.87	J/molxK	588.48	Joback Method
cpg	390.90	J/molxK	627.10	Joback Method
cpg	407.68	J/molxK	665.71	Joback Method
cpg	423.29	J/molxK	704.33	Joback Method
cpg	437.77	J/molxK	742.94	Joback Method
dvisc	0.0026621	Paxs	258.08	Joback Method
dvisc	0.0014334	Paxs	300.28	Joback Method

dvisc	0.0008990	Paxs	342.47	Joback Method
dvisc	0.0006246	Paxs	384.67	Joback Method
dvisc	0.0004663	Paxs	426.86	Joback Method
dvisc	0.0003670	Paxs	469.06	Joback Method
dvisc	0.0003004	Paxs	511.25	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=C5078751&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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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