

Benzene, p-bis(1-methylnonyl)-

Inchi:	InChI=1S/C26H46/c1-5-7-9-11-13-15-17-23(3)25-19-21-26(22-20-25)24(4)18-16-14-12-1
InchiKey:	LFROKLVDRFVKAS-UHFFFAOYSA-N
Formula:	C26H46
SMILES:	CCCCCCCCC(C)c1ccc(C(C)CCCCCCCC)cc1
Mol. weight [g/mol]:	358.64
CAS:	37415-47-7

Physical Properties

Property code	Value	Unit	Source
gf	265.94	kJ/mol	Joback Method
hf	-365.47	kJ/mol	Joback Method
hfus	49.70	kJ/mol	Joback Method
hvap	75.63	kJ/mol	Joback Method
log10ws	-9.70		Crippen Method
logp	9.395		Crippen Method
mcvol	353.440	ml/mol	McGowan Method
pc	874.28	kPa	Joback Method
tb	825.06	K	Joback Method
tc	1015.74	K	Joback Method
tf	391.72	K	Joback Method
vc	1.371	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1133.61	J/molxK	825.06	Joback Method
cpg	1231.77	J/molxK	983.96	Joback Method
cpg	1214.31	J/molxK	952.18	Joback Method
cpg	1195.83	J/molxK	920.40	Joback Method
cpg	1176.25	J/molxK	888.62	Joback Method
cpg	1155.53	J/molxK	856.84	Joback Method
cpg	1248.25	J/molxK	1015.74	Joback Method
dvisc	0.0000380	Paxs	825.06	Joback Method
dvisc	0.0000527	Paxs	752.84	Joback Method

dvisc	0.0000784	Paxs	680.61	Joback Method
dvisc	0.0001281	Paxs	608.39	Joback Method
dvisc	0.0002391	Paxs	536.17	Joback Method
dvisc	0.0005416	Paxs	463.94	Joback Method
dvisc	0.0016585	Paxs	391.72	Joback Method

Sources

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=C37415477&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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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