Benzene, 1,3,5-tributyl-

Other names: 1,3,5-Tributylbenzene
Inchi: InChI=1S/C18H30/c1-4-7-10-16-13-17(11-8-5-2)15-18(14-16)12-9-6-3/h13-15H,4-12H2,1
InchiKey: AVYPEYYPGYMFDO-UHFFFAOYSA-N
Formula: C18H30
SMILES: CCCCc1cc(CCCC)cc(CCCC)c1
Mol. weight [g/mol]: 246.43
CAS: 841-07-6

Physical Properties

Property code	Value	Unit	Source
gf	193.83	kJ/mol	Joback Method
hf	-201.26	kJ/mol	Joback Method
hfus	35.64	kJ/mol	Joback Method
hvap	59.26	kJ/mol	Joback Method
log10ws	-6.39		Crippen Method
logp	5.714		Crippen Method
mcvol	240.720	ml/mol	McGowan Method
pc	1429.38	kPa	Joback Method
tb	647.88	K	Joback Method
tc	835.16	K	Joback Method
tf	344.08	K	Joback Method
vc	0.935	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	654.13	J/mol×K	647.88	Joback Method
cpg	673.51	J/mol×K	679.09	Joback Method
cpg	691.93	J/mol×K	710.31	Joback Method
cpg	709.43	J/mol×K	741.52	Joback Method
cpg	726.05	J/mol×K	772.73	Joback Method
cpg	741.81	J/mol×K	803.94	Joback Method
cpg	756.76	J/mol×K	835.16	Joback Method
dvisc	0.0016856	Pa×s	344.08	Joback Method

dvisc	0.0008189	Pa×s	394.71	Joback Method
dvisc	0.0004689	Pa×s	445.35	Joback Method
dvisc	0.0003008	Pa×s	495.98	Joback Method
dvisc	0.0002095	Pa×s	546.61	Joback Method
dvisc	0.0001552	Pa×s	597.25	Joback Method
dvisc	0.0001204	Pa×s	647.88	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=C841076&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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