

2-Butyldiphenylmethane

Inchi:	InChI=1S/C17H20/c1-2-3-11-16-12-7-8-13-17(16)14-15-9-5-4-6-10-15/h4-10,12-13H,2-3
InchiKey:	LVCJZVGIIMAVDI-UHFFFAOYSA-N
Formula:	C17H20
SMILES:	CCCCc1ccccc1Cc1ccccc1
Mol. weight [g/mol]:	224.34
CAS:	62155-42-4

Physical Properties

Property code	Value	Unit	Source
chl	-9519.00	kJ/mol	NIST Webbook
gf	307.45	kJ/mol	Joback Method
hf	67.38	kJ/mol	Joback Method
hfus	27.48	kJ/mol	Joback Method
hvap	58.65	kJ/mol	Joback Method
log10ws	-5.21		Crippen Method
logp	4.620		Crippen Method
mcvol	202.870	ml/mol	McGowan Method
pc	2060.49	kPa	Joback Method
tb	646.70	K	Joback Method
tc	873.24	K	Joback Method
tf	346.71	K	Joback Method
vc	0.771	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	524.16	J/molxK	646.70	Joback Method
cpg	542.92	J/molxK	684.46	Joback Method
cpg	560.41	J/molxK	722.21	Joback Method
cpg	576.67	J/molxK	759.97	Joback Method
cpg	591.80	J/molxK	797.73	Joback Method
cpg	605.85	J/molxK	835.48	Joback Method
cpg	618.90	J/molxK	873.24	Joback Method
dvisc	0.0017845	Paxs	346.71	Joback Method

dvisc	0.0008858	Paxs	396.71	Joback Method
dvisc	0.0005144	Paxs	446.71	Joback Method
dvisc	0.0003332	Paxs	496.70	Joback Method
dvisc	0.0002337	Paxs	546.70	Joback Method
dvisc	0.0001739	Paxs	596.70	Joback Method
dvisc	0.0001355	Paxs	646.70	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C62155424&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

chl:	Standard liquid enthalpy of combustion
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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