

# t-Butyldiphenylmethanol

<b>Other names:</b>	tert-Butyldiphenylmethanol
<b>Inchi:</b>	InChI=1S/C17H20O/c1-16(2,3)17(18,14-10-6-4-7-11-14)15-12-8-5-9-13-15/h4-13,18H,1-
<b>InchiKey:</b>	YOVSPPKJDDWJML-UHFFFAOYSA-N
<b>Formula:</b>	C17H20O
<b>SMILES:</b>	CC(C)(C)C(O)(c1ccccc1)c1ccccc1
<b>Mol. weight [g/mol]:</b>	240.34
<b>CAS:</b>	1657-60-9

## Physical Properties

Property code	Value	Unit	Source
gf	185.94	kJ/mol	Joback Method
hf	-90.88	kJ/mol	Joback Method
hfus	17.13	kJ/mol	Joback Method
hvap	72.08	kJ/mol	Joback Method
log10ws	-4.44		Crippen Method
logp	3.969		Crippen Method
mcvol	208.740	ml/mol	McGowan Method
pc	2361.07	kPa	Joback Method
tb	727.44	K	Joback Method
tc	959.44	K	Joback Method
tf	399.85	K	Joback Method
vc	0.768	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	591.17	J/molxK	727.44	Joback Method
cpg	607.08	J/molxK	766.11	Joback Method
cpg	621.70	J/molxK	804.77	Joback Method
cpg	635.18	J/molxK	843.44	Joback Method
cpg	647.66	J/molxK	882.11	Joback Method
cpg	659.27	J/molxK	920.77	Joback Method
cpg	670.15	J/molxK	959.44	Joback Method
dvisc	0.0023220	Paxs	399.85	Joback Method

dvisc	0.0006616	Paxs	454.45	Joback Method
dvisc	0.0002468	Paxs	509.05	Joback Method
dvisc	0.0001114	Paxs	563.64	Joback Method
dvisc	0.0000579	Paxs	618.24	Joback Method
dvisc	0.0000335	Paxs	672.84	Joback Method
dvisc	0.0000210	Paxs	727.44	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	383.00	K	0.00	NIST Webbook

## Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C1657609&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1657609&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature

**tf:** Normal melting (fusion) point

**vc:** Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/74-551-8/t-Butyldiphenylmethanol.pdf>

Generated by Cheméo on 2024-05-01 18:09:06.40040819 +0000 UTC m=+16876195.320985502.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.