

Phthalic acid, butyl 3-phenoxybenzyl ester

Inchi:	InChI=1S/C25H24O5/c1-2-3-16-28-24(26)22-14-7-8-15-23(22)25(27)29-18-19-10-9-13-2
InchiKey:	HEFFLMGZNOPKTP-UHFFFAOYSA-N
Formula:	C25H24O5
SMILES:	CCCCOC(=O)c1ccccc1C(=O)OCc1cccc(Oc2ccccc2)c1
Mol. weight [g/mol]:	404.46

Physical Properties

Property code	Value	Unit	Source
gf	-95.25	kJ/mol	Joback Method
hf	-494.50	kJ/mol	Joback Method
hfus	48.61	kJ/mol	Joback Method
hvap	100.12	kJ/mol	Joback Method
log10ws	-6.96		Crippen Method
logp	5.793		Crippen Method
mcvol	312.580	ml/mol	McGowan Method
pc	1502.31	kPa	Joback Method
rinsol	3124.00		NIST Webbook
tb	1036.40	K	Joback Method
tc	1281.07	K	Joback Method
tf	642.36	K	Joback Method
vc	1.177	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	991.87	J/molxK	1036.40	Joback Method
cpg	1028.49	J/molxK	1240.29	Joback Method
cpg	1024.31	J/molxK	1199.52	Joback Method
cpg	1018.60	J/molxK	1158.74	Joback Method
cpg	1011.33	J/molxK	1117.96	Joback Method
cpg	1002.44	J/molxK	1077.18	Joback Method
cpg	1031.22	J/molxK	1281.07	Joback Method
dvisc	0.0000216	Paxs	1036.40	Joback Method
dvisc	0.0000272	Paxs	970.73	Joback Method

dvisc	0.0000354	Paxs	905.05	Joback Method
dvisc	0.0000480	Paxs	839.38	Joback Method
dvisc	0.0000686	Paxs	773.71	Joback Method
dvisc	0.0001046	Paxs	708.03	Joback Method
dvisc	0.0001738	Paxs	642.36	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=U357035&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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/17-633-0/Phthalic-acid-butyl-3-phenoxybenzyl-ester.pdf>

Generated by Cheméo on 2024-04-19 01:46:56.137915865 +0000 UTC m=+15780465.058493177.

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