

Isophthalic acid, butyl 2-methylbutyl ester

Inchi:	InChI=1S/C17H24O4/c1-4-6-10-20-16(18)14-8-7-9-15(11-14)17(19)21-12-13(3)5-2/h7-9,
InchiKey:	NETLFXZGEHNSNK-UHFFFAOYSA-N
Formula:	C17H24O4
SMILES:	CCCCOC(=O)c1cccc(C(=O)OCC(C)CC)c1
Mol. weight [g/mol]:	292.37

Physical Properties

Property code	Value	Unit	Source
gf	-275.24	kJ/mol	Joback Method
hf	-664.03	kJ/mol	Joback Method
hfus	35.49	kJ/mol	Joback Method
hvap	74.30	kJ/mol	Joback Method
log10ws	-4.65		Crippen Method
logp	3.846		Crippen Method
mcvol	241.510	ml/mol	McGowan Method
pc	1687.95	kPa	Joback Method
rinpol	2179.00		NIST Webbook
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tb	772.16	K	Joback Method
tc	975.26	K	Joback Method
tf	449.61	K	Joback Method
vc	0.921	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	704.89	J/mol×K	772.16	Joback Method
cpg	720.52	J/mol×K	806.01	Joback Method
cpg	735.10	J/mol×K	839.86	Joback Method
cpg	748.65	J/mol×K	873.71	Joback Method
cpg	761.19	J/mol×K	907.56	Joback Method
cpg	772.73	J/mol×K	941.41	Joback Method
cpg	783.29	J/mol×K	975.26	Joback Method
dvisc	0.0009014	Pa×s	449.61	Joback Method

dvisc	0.0004783	Pa×s	503.37	Joback Method
dvisc	0.0002868	Pa×s	557.13	Joback Method
dvisc	0.0001882	Pa×s	610.88	Joback Method
dvisc	0.0001322	Pa×s	664.64	Joback Method
dvisc	0.0000979	Pa×s	718.40	Joback Method
dvisc	0.0000756	Pa×s	772.16	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=U344730&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log_{10ws}:	Log10 of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mc_{vol}:	McGowan's characteristic volume
p_c:	Critical Pressure
rin_{pol}:	Non-polar retention indices
t_b:	Normal Boiling Point Temperature
t_c:	Critical Temperature
t_f:	Normal melting (fusion) point
v_c:	Critical Volume

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