

Phthalic acid, butyl 2-methoxybenzyl ester

Inchi:	InChI=1S/C20H22O5/c1-3-4-13-24-19(21)16-10-6-7-11-17(16)20(22)25-14-15-9-5-8-12-
InchiKey:	LPCMDLGFZXSAG-UHFFFAOYSA-N
Formula:	C20H22O5
SMILES:	CCCCOC(=O)c1ccccc1C(=O)OCc1ccccc1OC
Mol. weight [g/mol]:	342.39

Physical Properties

Property code	Value	Unit	Source
gf	-249.76	kJ/mol	Joback Method
hf	-627.83	kJ/mol	Joback Method
hfus	41.62	kJ/mol	Joback Method
hvap	86.71	kJ/mol	Joback Method
log10ws	-5.44		Crippen Method
logp	4.009		Crippen Method
mvol	265.890	ml/mol	McGowan Method
pc	1692.12	kPa	Joback Method
rinpol	2969.00		NIST Webbook
rinpol	2969.00		NIST Webbook
tb	895.32	K	Joback Method
tc	1119.10	K	Joback Method
tf	559.59	K	Joback Method
vc	1.006	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	807.52	J/molxK	895.32	Joback Method
cpg	860.72	J/molxK	1081.80	Joback Method
cpg	852.78	J/molxK	1044.51	Joback Method
cpg	843.50	J/molxK	1007.21	Joback Method
cpg	832.88	J/molxK	969.91	Joback Method
cpg	820.89	J/molxK	932.62	Joback Method
cpg	867.35	J/molxK	1119.10	Joback Method
dvisc	0.0000429	Paxs	895.32	Joback Method

dvisc	0.0000537	Paxs	839.37	Joback Method
dvisc	0.0000694	Paxs	783.41	Joback Method
dvisc	0.0000933	Paxs	727.45	Joback Method
dvisc	0.0001319	Paxs	671.50	Joback Method
dvisc	0.0001984	Paxs	615.55	Joback Method
dvisc	0.0003238	Paxs	559.59	Joback Method

Sources

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=U382493&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mcvol:	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

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