

Isophthalic acid, butyl 3-methylbut-2-en-1-yl ester

Inchi:	InChI=1S/C17H22O4/c1-4-5-10-20-16(18)14-7-6-8-15(12-14)17(19)21-11-9-13(2)3/h6-9,
InchiKey:	LYUXCDUQXBMZRN-UHFFFAOYSA-N
Formula:	C17H22O4
SMILES:	CCCCOC(=O)c1cccc(C(=O)OCC=C(C)C)c1
Mol. weight [g/mol]:	290.35

Physical Properties

Property code	Value	Unit	Source
gf	-201.13	kJ/mol	Joback Method
hf	-551.32	kJ/mol	Joback Method
hfus	37.90	kJ/mol	Joback Method
hvap	74.72	kJ/mol	Joback Method
log10ws	-4.74		Crippen Method
logp	3.766		Crippen Method
mcvol	237.210	ml/mol	McGowan Method
pc	1758.02	kPa	Joback Method
rinpol	2235.00		NIST Webbook
rinpol	2235.00		NIST Webbook
tb	776.64	K	Joback Method
tc	985.28	K	Joback Method
tf	445.57	K	Joback Method
vc	0.908	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	678.98	J/molxK	776.64	Joback Method
cpg	694.05	J/molxK	811.41	Joback Method
cpg	708.12	J/molxK	846.19	Joback Method
cpg	721.21	J/molxK	880.96	Joback Method
cpg	733.34	J/molxK	915.73	Joback Method
cpg	744.56	J/molxK	950.50	Joback Method
cpg	754.88	J/molxK	985.28	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=U343935&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvp:	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
rinp:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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