

Fumaric acid, 4-bromophenyl 3-methylbut-2-yl ester

Inchi:	InChI=1S/C15H17BrO4/c1-10(2)11(3)19-14(17)8-9-15(18)20-13-6-4-12(16)5-7-13/h4-11
InchiKey:	FKSBAJRHMLROJH-CMDGGGOBGSA-N
Formula:	C15H17BrO4
SMILES:	CC(C)C(C)OC(=O)C=CC(=O)Oc1ccc(Br)cc1
Mol. weight [g/mol]:	341.20

Physical Properties

Property code	Value	Unit	Source
gf	-199.98	kJ/mol	Joback Method
hf	-484.48	kJ/mol	Joback Method
hfus	32.27	kJ/mol	Joback Method
hvap	75.85	kJ/mol	Joback Method
log10ws	-4.46		Crippen Method
logp	3.498		Crippen Method
mcvol	226.530	ml/mol	McGowan Method
pc	2239.76	kPa	Joback Method
rinpol	2160.00		NIST Webbook
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tb	796.28	K	Joback Method
tc	1023.66	K	Joback Method
tf	466.79	K	Joback Method
vc	0.846	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	607.46	J/molxK	796.28	Joback Method
cpg	620.53	J/molxK	834.18	Joback Method
cpg	632.59	J/molxK	872.07	Joback Method
cpg	643.65	J/molxK	909.97	Joback Method
cpg	653.78	J/molxK	947.86	Joback Method
cpg	662.99	J/molxK	985.76	Joback Method
cpg	671.34	J/molxK	1023.66	Joback Method
dvisc	0.0007626	Paxs	466.79	Joback Method

dvisc	0.0004076	Paxs	521.71	Joback Method
dvisc	0.0002455	Paxs	576.62	Joback Method
dvisc	0.0001614	Paxs	631.53	Joback Method
dvisc	0.0001135	Paxs	686.45	Joback Method
dvisc	0.0000841	Paxs	741.37	Joback Method
dvisc	0.0000650	Paxs	796.28	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=U405766&Units=SI

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
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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