

Binapacryl

Other names:

2-Butenoic acid, 3-methyl-, 2-(1-methylpropyl)-4,6-dinitrophenyl ester

2-sec-Butyl-4,6-dinitrophenyl 3-methylcrotonate

Crotonic acid, 3-methyl-, 2-sec-butyl-4,6-dinitrophenyl ester

Acricid

Ambox

2-sek. Butyl-4,6-dinitrofenylester kyseliny 3-methylkrotonove

2-sec-Butyl-4,6-dinitrophenyl-3,3-dimethylacrylate

2-sec-Butyl-4,6-dinitrophenyl 3-methyl-2-butenate

2-sec-Butyl-4,6-dinitrophenyl senecioate

Dapacryl

3,3 Dimethyl-acrylate de 2,4-dinitro-6-(1-methylpropyle) phenyle

3,3-Dimethylacrylic acid 2-sec-butyl-4,6-dinitrophenyl ester

Dinapacryl

4,6-Dinitro-2-sec-butylphenyl «beta», «beta»-dimethylacrylate

2,4-Dinitro-6-sec-butylphenyl 2-methylcrotonate

4,6-Dinitrophenyl-2-sec-butyl-3-methyl-2-butenonate

Dinoseb, 3,3-dimethylacryl ester

Dinoseb methacrylate

Endosan

ENT 25,793

FMC 9044

HOE 2784

HOE 2784 OA

3-Methyl-2-butenic acid 2-sec-butyl-4,6-dinitrophenyl ester

3-Methyl-2-butenic acid 2-(1-methylpropyl)-4,6-dinitrophenyl ester

3-Methylcrotonic acid 2-sec-butyl-4,6-dinitrophenyl ester

(6-(1-Methyl-propyl)-2,4-dinitro-fenyl)-3,3-dimethyl-acrylaat

2-(1-Methylpropyl)-4,6-dinitrophenyl «beta», «beta»-dimethacrylate

(6-(1-Methyl-propyl)-2,4-dinitro-phenyl)-3,3-dimethyl-acrylat

(6-(1-Metil-propil)-2,4-dinitro-fenil)-3,3-dimetil-acrilato

Morocide

Morrocid

NIA 9044

Niagara 9044

Phenol, 2-sec-butyl-4,6-dinitro-, 3-methylcrotonate

Senecioic acid 2-sec butyl-4,6-dinitrophenyl ester

2-sec-Butyl-4,6-dinitrophenyl 3-methylcrotonate (binapacryl)

Inchi:

InChI=1S/C15H18N2O6/c1-5-10(4)12-7-11(16(19)20)8-13(17(21)22)15(12)23-14(18)6-9

InchiKey:

ZRDUSMYWDRPZRM-UHFFFAOYSA-N

Formula:

C15H18N2O6

SMILES: CCC(C)c1cc([N+](=O)[O-])cc([N+](=O)[O-])c1OC(=O)C=C(C)C
Mol. weight [g/mol]: 322.31
CAS: 485-31-4

Physical Properties

Property code	Value	Unit	Source
gf	65.35	kJ/mol	Joback Method
hf	-314.98	kJ/mol	Joback Method
hfus	48.36	kJ/mol	Joback Method
hvap	95.23	kJ/mol	Joback Method
log10ws	-5.80		Crippen Method
logp	3.888		Crippen Method
mcvol	236.430	ml/mol	McGowan Method
pc	1998.33	kPa	Joback Method
rinpol	2200.00		NIST Webbook
rinpol	2247.00		NIST Webbook
tb	967.79	K	Joback Method
tc	1218.59	K	Joback Method
tf	343.76 ± 0.20	K	NIST Webbook
vc	0.930	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	726.67	J/mol×K	967.79	Joback Method
cpg	737.63	J/mol×K	1009.59	Joback Method
cpg	747.52	J/mol×K	1051.39	Joback Method
cpg	756.40	J/mol×K	1093.19	Joback Method
cpg	764.33	J/mol×K	1134.99	Joback Method
cpg	771.38	J/mol×K	1176.79	Joback Method
cpg	777.61	J/mol×K	1218.59	Joback Method
hfust	18.89	kJ/mol	341.30	NIST Webbook

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=C485314&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
hfust:	Enthalpy of fusion at a given temperature
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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