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Cocoa Bean Shells

Analysis

Parameter	Amount (a.r.)	Amount (o.d.)	Amount (as det.)	Amount (d.a.f.)	Unit
Total Moisture	12,65				%
Moisture airdry			12,77		%
Ash	7,66	8,77	7,65		%
Volatile matter incl. moisture			74,00		%
Volatile matter	61,31	70,19	61,23	76,94	%
Fixed Carbon	18,38	21,04			%
Gross Caloric Value	3983	4560	3978	4998	kcal/kg
	16,68	19,09	16,65	20,93	GJ/mt
Net Caloric Value (cV)	3666				kcal/kg
	15,351				GJ/mt
	6600				B.T.U.'s/LB
Hydrogen	5,02	5,74	6,43	6,30	%
S (Sulphur)	0,20	0,23	0,20	0,25	%

Contaminations

Metal and other elements

Parameter	Amount (a.r.)	Amount (o.d.)	Amount (as det.)	Unit
Cd (Cadmium)	0,168	0,193	0,168	mg/kg
Pb (Lead)	0,53	0,61	0,53	mg/kg
As (Arsenic)	0,040	0,046	0,040	mg/kg
Hg (Mercury)	<0,020	<0,020	<0,020	mg/kg
Zn (Zinc)	58,5	67,0	58,4	mg/kg
Ni (Nickel)	10,3	11,8	10,3	mg/kg
Cr (Chromium)	<5,0	<5,0	<5,0	mg/kg
Cl (Chlorine)	<0,010	<0,010	<0,010	%
Cu (Copper; AAS)	31,17	35,69	31,13	mg/kg
V (Vanadium)	1,1	1,3	1,1	mg/kg (ppm)

All information and advice in whatever form regarding possibilities of processing or using our products, as well as presentations or otherwise providing information - also in respects of possible rights of third parties - is given to the best of our knowledge on the basis of research work and experience. It is not, however, binding on us and all liability on our part is excluded. The purchaser is not released from the burden of carrying out his own tests and experiments. Furthermore, our sales and delivery conditions will apply accordingly.

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