

Supplementary Information

Neopentyl glycol as alternative solvent for the chemical recycling of complex PET waste

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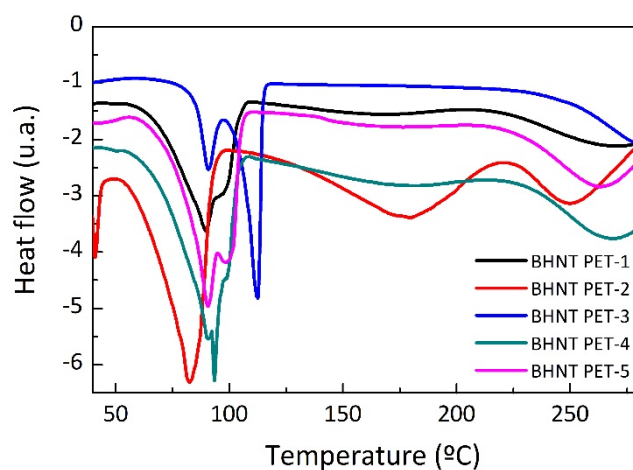


Figure S1. DSC thermogram for reaction products before purification.

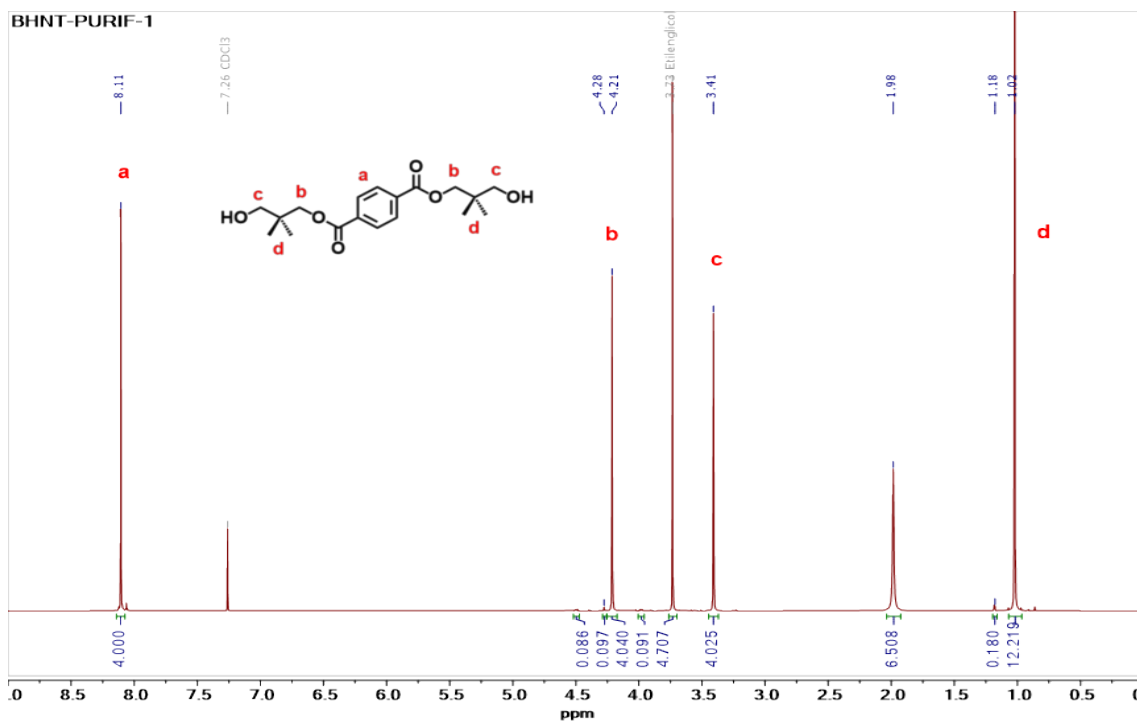


Figure S2. NMR spectra of a purified BHNT sample.

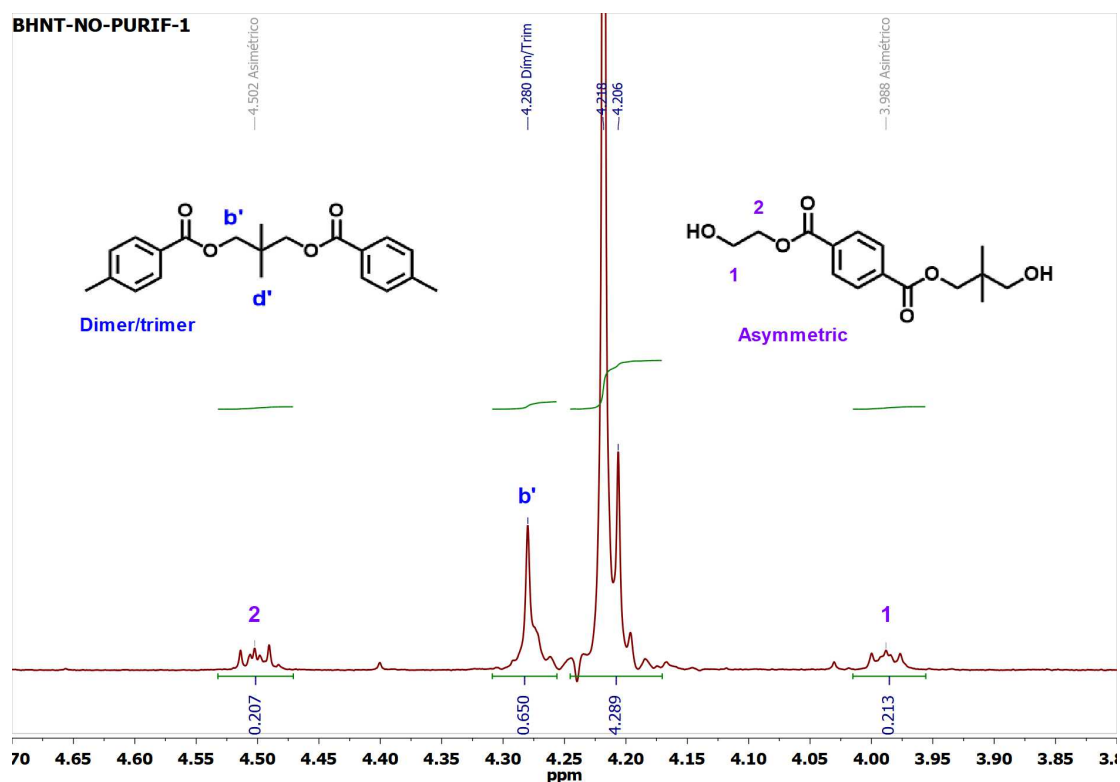


Figure S3. Close-up view of asymmetric and dimer/trimer compound region.

Table S1. BHNT sample composition (raw/purified) according to NMR analysis.

PET	BHNT (mol %)	EG (mol %)	NPG (mol %)	Dimer (mol %)	Trimer (mol %)	Asymm. (mol %)
PET-1	63.73 / 94.06	0.43 / 0.00	18.44 / 0.40	9.30 / 3.22	0.96 / 0.00	7.14 / 2.32
PET-2	41.43 / 91.00	2.85 / 0.00	41.60 / 2.46	7.07 / 3.73	0.80 / 0.00	6.25 / 2.81
PET-3	89.46 / 95.32	0.22 / 0.00	2.42 / 0.16	4.84 / 2.47	0.00 / 0.00	3.06 / 2.05
PET-4	75.32 / 90.19	0.06 / 0.00	6.01 / 1.23	9.96 / 5.37	1.45 / 0.00	7.20 / 3.21
PET-5	69.32 / 93.58	0.47 / 0.00	13.21 / 1.94	7.85 / 2.29	1.09 / 0.00	8.06 / 2.19

Table S2. CIELAB colour parameters and Zn content of obtained BHNT samples.

Sample	L*	a*	b*	Zn (mg/kg)
BHNT PET-1 raw	88.39	-1.10	7.36	236.4
BHNT PET-1 purified	91.41	-0.05	0.63	5.2
BHNT PET-2 raw	74.19	-1.31	2.39	193.6
BHNT PET-2 purified	93.15	-0.03	0.52	4.1
BHNT PET-3 raw	69.80	5.16	17.46	347.8
BHNT PET-3 purified	92.29	0.01	1.61	14.5
BHNT PET-4 raw	67.68	11.33	10.20	207.9
BHNT PET-4 purified	92.46	0.11	4.52	6.1
BHNT PET-5 raw	88.14	-3.57	7.63	197.3
BHNT PET-5 purified	92.13	0.01	0.78	2.8